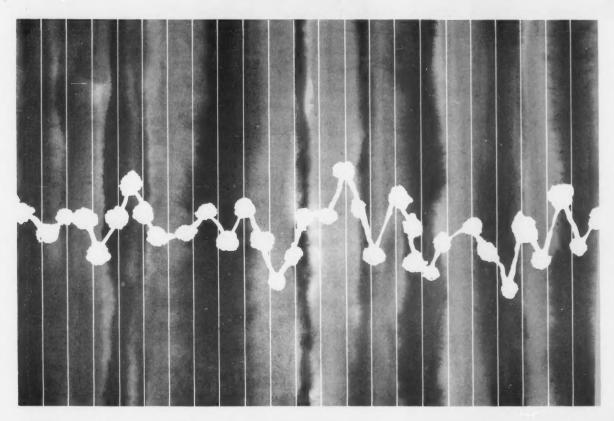
defense indicators

NOVEMBER 1977





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This report is prepared in the Statistical Indicators Division, Bureau of Economic Analysis. Technical staff and their responsibilities for the publication are—

Barry A. Beckman—Technical supervision and review.

Morton Somer—Selection of seasonal adjustment methods,

Betty F. Tunstall—Collection and compilation of basic data.

The cooperation of various Government agencies which provide data is gratefully acknowledged.

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The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 1, 1980.

U.S. DEPARTMENT OF COMMERCE Juanita M. Kreps, Secretary

Courtenay M. Slater, Chief Economist for the Department of Commerce

BUREAU OF ECONOMIC ANALYSIS

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defense indicators

November 1977 Series ES4 No. 77-11

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6 BEA PROJECTS

for economic analysis

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BUSINESS CONDITIONS DIGEST A monthly report for analyzing economic fluctuations over a short span of years.

This report brings together many of the economic time series found most useful by business analysts and forecasters. The dominant feature is the cyclical indicators section in which approximately 110 business cycle indicators are each assigned a three-way timing classification according to their cyclical behavior at peaks, at troughs, and at all turns. This section also contains other valuable aids for the analysis of business conditions and prospects, such as composite indexes of leading, coincident, and lagging indicators and various diffusion indexes. A second section contains other important economic measures such as prices, wages, productivity, government activities, U.S. international transactions, and international comparisons.

Data are presented in charts and tables. Appendixes provide historical data, series descriptions, seasonal adjustment factors, and measures of variability. A computer tape containing data for most of the series is available for purchase.

DEFENSE INDICATORS A monthly report for analyzing the current and prospective impact of defense activity on the national economy.

This report brings together the principal time series on defense activities which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. The approximately 60 time series included are grouped in accordance with the time at which the activities they measure occur in the defense order-production-delivery process. Charts and analytical tables facilitate interpretation.

LONG TERM ECONOMIC GROWTH A report for the study of economic trends over a long span of years, 1860-1970.

This report has been developed from available statistics to provide a comprehensive, long-range view of the U.S. economy. It is a basic research document for economists, historians, investors, teachers, and students. It brings together under one cover, in meaningful and convenient form, the complete statistical basis for a study of long-term economic trends. A computer tape file of the time series included in the report is available for purchase.

COMPUTER PROGRAMS FOR TIME SERIES ANALYSIS The source statements for FORTRAN IV programs used by BEA in its analysis of time series are available on a single computer tape.

SEASONAL ADJUSTMENT PROGRAMS.—Two variants of the Census computer program for measuring and analyzing seasonal, trading-day, cyclical, and irregular fluctuations. They are particularly useful in analyzing economic fluctuations which take place within a year. The X-11 variant is used for adjusting monthly data and the X-110 for quarterly data. These programs make additive as well as multiplicative adjustments and compute many summary and analytical measures.

DIFFUSION INDEX PROGRAM.—A computer program for computing diffusion indexes, cumulated diffusion indexes, and summary measures of the properties of each index.

SURVEY OF CURRENT BUSINESS A monthly report for analyzing current economic developments.

This report provides a useful combination of current data for more than 2,500 statistical series and significant articles analyzing economic developments. These data and analyses include such areas as the national income and product accounts, the balance of payments accounts, plant and equipment expenditures, regional personal income, and the input-output accounts.

BUSINESS STATISTICS A biennial reference volume containing statistical series reported arrently in the Survey of Current Business.

This report provides historical data back to 1947 for nearly 2,500 time series. The series are accompanied by concise descriptions as to their composition, methods of compilation, comparability, revisions, and availability. Also listed are the names and addresses of organizations which provide the basic data for the series.

Introduction

The purpose of this monthly report is to bring together the principal time series on defense activity which influence short-term changes in the national economy. These include series on obligations, contracts, orders, shipments, inventories, expenditures, employment, and earnings. Most are monthly but a few quarterly series are included. The series numbers used are for identification purposes only and do not reflect relationships or order.

Classification of Series

Chart 1 compares Government purchases of goods and services for national defense with total gross national product. GNP is the market value of the final output of goods and services produced by the Nation's economy and represents a very broad measure of aggregate economic activity. In addition to national defense purchases, it includes Federal Government purchases of goods and services for nondefense purposes, State and local government purchases, personal consumption expenditures, gross private domestic investment, and net exports of goods and services. Chart 1 also presents national defense purchases as a percent of gross national product and, for both series, changes from the previous quarter.

A related group of series is shown in Chart 4, "Defense Related Balance of Payments Components." These series show the effects of defense-related economic activity on the balance of payments accounts.

The remaining series are grouped in accordance with the time at which the activities they measure occur within the defense order-production-delivery process. Those series measuring activities that usually precede production, such as new orders placed with defense products industries and contract awards, are presented in Chart 2, "Advance Indicators of Defense Activity." Chart 3, "Intermediate and Final Indicators of Defense Activity," presents series that measure activities which tend to move at the same time as production (such as employment) and activities which usually follow production (such as shipments).

Series Included

Following is a list of the series as they appear in charts 1, 2, 3, and 4 (the source agencies are abbreviated in parentheses; detailed lists of sources for charts 1, 2, and 3 appeared as appendixes to the August and October 1968 issues of this report).

Gross National Product and National Defense Purchases

Gross national product (BEA)

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Federal Government purchases of goods and services, national defense (BEA)

National defense purchases as a percent of gross national product (RFA)

Gross national product, changes from previous quarter (BEA) National defense purchases, changes from previous quarter (BEA)

Advance Indicators of Defense Activity

Defense Department gross obligations incurred, total (DOD)
Defense Department gross obligations incurred, procurement (DOD)

Gross obligations incurred outside the Government for national defense (Treasury) Defense Department military prime contract awards for work performed in the United States (DOD)

Defense Department gross unpaid obligations outstanding (DOD)

Manufacturers' new orders (Census):

Defense products industries

Defense products

Manufacturers' new orders from the U.S. Government, aerospace industries (Census):

Average weekly overtime hours, production workers, defense products industries (BLS)

Accession rate, defense products industries (BLS)
Layoff rate, defense products industries (BLS)

Intermediate and Final Indicators of Defense Activity

Output of defense and space equipment (FRB)

Manufacturers' inventories (Census):

Defense products industries

Defense products ind

Manufacturers' unfilled orders (Census):

Defense products industries

Defense products

Manufacturers' unfilled orders from the U.S. Government,

aerospace industries (Census)

Defense Department progress payments outstanding (DOD)
Employment in defense products industries, total (BLS)
Employment in defense products industries, production
workers (BLS)

Index of aggregate weekly hours, defense products industries (BLS)

Index of aggregate weekly payrolls, production workers, defense products industries (BLS)

Defense Department personnel, military, active duty (DOD)
Defense Department personnel, civilian, direct hire employment (DOD)

Defense Department net outlays, total, military functions and military assistance (DOD)

Defense Department net outlays, procurement (DOD)

Budget outlays for the national defense function (Treasury)
Defense Department personnel compensation (DOD)

Manufacturers' shipments (Census):

Defense products industries

Defense products

Manufacturers' shipments to the U.S. Government, aerospace industries (Census)

Ratio, manufacturers' unfilled orders to shipments (Census): Defense products industries

Defense products

Defense products

Ratio, manufacturers' inventories to shipments (Census): Defense products industries

Defense-Related Balance of Payments Components

Transfers under U.S. military agency sales contracts—exports (BEA)

Direct defense expenditures-imports (BEA)

U.S. Government cash receipts associated with military sales contracts (BEA)

Some additional data are included in the tables though not presented in the charts. These include Defense Department military prime contract awards by procurement category (e.g., for aircraft, missiles and space systems, ships, weapons, and ammunitions), the operations component of Defense Department

Description of Basic Data

The Department of Defense compiles statistics on obligations, contract awards, personnel compensation, and outlays. The DOD obligations and outlays data are based on the Defense Department's monthly Status of Funds report which is developed from accounting data and is designed to provide information on the total status of Defense Department financing. Accounts included in this report are aggregated by appropriation categories including personnel costs, operations and maintenance, procurement, research and development, and construction. The Status of Funds report duplicates some obligations. That is, obligations of one government unit to another unit are not netted out.

The Defense Department's Contract Awards report covers the awarding of procurement contracts. These include obligations for operating and maintenance supplies, equipment and services, research and development, and construction in addition to the obligations for items that constitute the fiscal "procurement" category. The statistics are aggregated by commodity categories including aircraft, missile and space systems, ships, weapons, ammunition, electronics and communication equipment, fuels, and textiles and clothing. The Contract Awards report includes procurement for NASA, other nondefense agencies, and the Foreign Military Sales Program which are not included in the Status of Funds report.

The Census quarterly new orders, unfilled orders and shipments series for "aerospace industries" are based on reports of companies classified into the following industry categories:

Industry	SIC Code
Aircraft and parts Guided missiles and space vehicles, completely assembled	372 1925

The Census and BLS data for "defense products industries" presented in this report cover companies and establishments¹ classified into the following industry categories in accordance with the Standard Industrial Classification Manual, 1967 edition, Executive Office of the President, Bureau of the Budget:

Industry	SIC Code
Ordnance and accessories	 19
Communication equipment	 366
Aircraft and parts	 372

Establishments reporting to the BLS are classified into industries on the basis of their principal product or activity as determined from information on annual sales volume, which is collected each year on a supplement to the monthly report. The entire employment of an establishment making more than one product or engaging in more than one activity is included under the industry accounting for the largest percentage of the annual sales of that establishment.

The Census Bureau's monthly survey is based primarily on reports at the company level and the monthly estimates are benchmarked to the establishment data from the *Annual Survey*

of Manufactures. Also, many of the large diversified companies file separate divisional reports monthly. Although the reports in the survey are also classified according to their principal product or activity, this difference in the organizational level from which reports are received results in firms being classified into different industries in the BLS and Census surveys and, consequently, limits somewhat the comparability of the data collected by these agencies. However, as we know from past studies in this area, some differences in industrial classification between BLS and Census data would remain even if reports came from the same organizational levels.

Both the Census and the BLS data include a significant amount of nondefense activities carried on by companies and establishments classified in the above industries. For example, the data cover the production of commercial as well as military aircraft. On the other hand, they exclude significant amounts of defense work carried on by companies and establishments classified in industries other than those listed above (e.g., the manufacture of military uniforms and the shipbuilding industry).²

Census data for "defense products" are based on separate reports on defense work filed by large defense contractors in the ordnance, communications, complete aircraft, aircraft parts, and shipbuilding industries. Thus, they differ from the "defense products industries" data in that they include defense activity in the shipbuilding industry and exclude nondefense work in the other industries covered. Defense products data cover work for the Department of Defense and exclude contracts for the National Aeronautics and Space Administration and the Atomic Energy Commission.

The DOD data are not strictly comparable in coverage with either the BLS or the Census data since the Defense Department figures (1) cover products of industries not included in the defense products category; (2) generally do not include non-defense activities (except that some series, such as contract awards, include activities by the Department of Defense on behalf of nondefense agencies); and (3) do not cover intermediate activities such as those related to subcontracting and supplying of parts. Thus, the Census Bureau data for manufacturers' new orders and shipments of defense products industries, for example, differ in coverage from the DOD contract awards and net outlays series.

The Department of Defense data are not comparable with Federal Government purchases of goods and services for national defense or the Treasury Department obligations and outlays data since the BEA and Treasury data cover defense-related activities of other agencies such as the Atomic Energy Commission, the Selective Service System, and the Office of Emergency Planning.

Projects to improve the comparability of the data collected by the Bureau of the Census, the Bureau of Labor Statistics, and the Department of Defense and to improve the separation of defense and nondefense activity for the Census and BLS data are being undertaken by the statistical agencies under the leadership of the Interagency Committee mentioned earlier in this report.

¹An establishment is a single physical location where business is conducted (e.g., a plant). A company often includes more than one establishment.

²See the Bureau of the Census publication *Shipments of Defense-Oriented Industries*, Current Industrial Reports, Series MA-175, for annual estimates of shipments by industry to the Department of Defense, the National Aeronautics and Space Administration, and the Atomic Energy Commission. Included also are industries not covered by the "defense products industries" category.

Variability of Data

Seasonal variations dominate the movements of many time series, and adjustments for average seasonal fluctuations are often necessary to bring out the underlying trends of the series. These seasonal adjustments allow for the effects of repetitive intrayear variations resulting primarily from normal differences in weather conditions and from various institutional arrangements. An additional adjustment is sometimes necessary for series which contain considerable variation resulting from the number of working or trading days in each month. As used in this report, the term "seasonal adjustment" includes trading-day adjustments where they have been made.

Most of the series in this report are shown in seasonally adjusted form. For Defense Department and BLS series, unadjusted data are also shown since they are not readily available elsewhere, Current seasonal adjustment factors are shown in appendix A.

The effect of seasonal adjustment in reducing the month-to-month variation in the data can be seen in appendix B. There, the first two columns show the average month-to-month percent change (without regard to sign) in the data before and after seasonal adjustment. Some series still show very irregular month-to-month movements after adjustment for seasonal variation. The measures in appendix B also indicate the month-to-month variation in the irregular and short-term trend components of the series. For many series, irregular movements tend to dominate 1- or 2-month comparisons, and the underlying short-term trend becomes dominant in comparisons over longer spans. The "months for cyclical dominance" (MCD) measure estimates the span of months required for the short-term trend to dominate the irregular component. Series with an MCD of 4 or more are supplemented with a moving average (with the

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number of terms equal to MCD) in the charts. Data for these moving averages are listed in the basic data tables.

Guide to Charts and Tables

Most series are plotted on a standard ratio scale so that equal percent changes cover the same vertical distance. For these series, an increase of 100 percent covers approximately 1 inch. Arithmetic scales are used for series with zero or negative data, series which could approach zero (e.g., average overtime hours and layoff rate), and series expressed in percent.

In general, monthly data are plotted with a solid line and quarterly data are represented by a solid line with quarterly plot points. Quarterly series are also identified with a "Q" after their titles. For series which include a moving average, a dashed line is used for the actual monthly data and a solid line for the moving average. (The moving average values are centered within the span of months they are computed from.) Exceptions to this scheme may be necessary for special situations. Data apply to the whole period except for series designated "EOM" (end of month) or "EOQ" (end of quarter). The number in the box at the right of each series indicates the latest month (Arabic) or quarter (Roman) plotted. Parallel lines across a series indicate a break in continuity (e.g., data not available or change in series definition).

Tables 1, 2, 3, and 4 present current data for the series shown in the charts, including the moving averages. They also include unadjusted data for some series and data for related series which are not plotted. Table A summarizes the most recent data and percent changes for many of the series in the report. Historical data are shown on an intermittent basis in appendix C. (The index indicates the appropriate issue for each series.)

New Features and Changes for This Issue

- 1. Current seasonal adjustment factors, which are based on historical data patterns, are inaccurate for some defense series because of the change in the Government's fiscal year, and suitable seasonal factors cannot be established at this time. For this reason, seasonally adjusted data are not shown for Defense Department gross obligations incurred (series 617, 619, and 621) and Defense Department military prime contract awards, total (series 625) for the period since May 1977, nor are they shown for the components of military prime contract awards (series 626, 627, 629-637, and 640) for the period since the first quarter 1977. For these series, unadjusted data are shown in the data tables and seasonal adjustment factors on the old basis are shown in appendix A.
 - 2. Appendix C contains historical data for series 617, 619, 621, 623, and 683.

The December issue of DEFENSE INDICATORS is scheduled for release on December 30.

Table A. Summary of Recent Data and Current Percent Changes for Principal Defense Indicators

(Preliminary and revised figures are not identified here but the user may consult tables 1, 2, 3, and 4 where such identification is given)

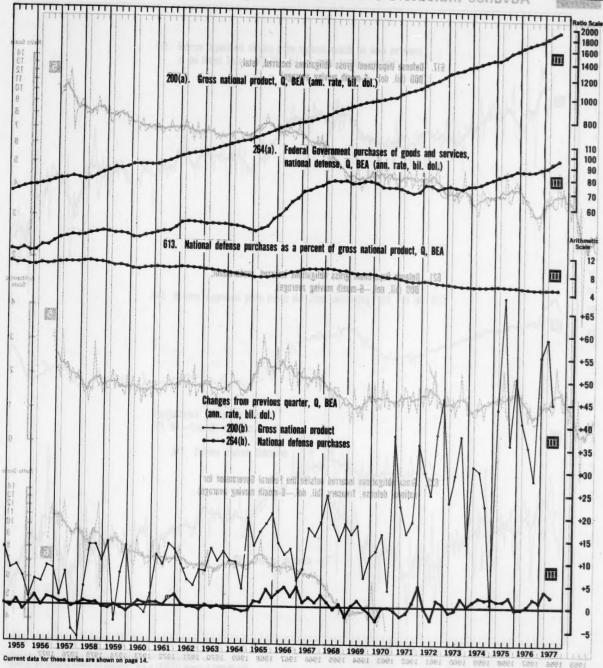
	of Daniel				Besic	data					Percent	change		6
Series title	Unit of						in the control of the soul			Aug. '77	Sept. '77	1st Q '77	2d Q '77	numb
	messure	1975	1976	1st Q 1977	2d Q 1977	3d Q 1977	Aug. 1977	Sept. 1977	Oct. 1977	to Sept. 77	to Oct. '77	2d Q 77	3d Q 77	Series numbe
GROSS NATIONAL PRODUCT AND NATIONAL DEFENSE PURCHASES			27/ AN E 27/37						Sec. 10	A) To		of the		
00. Gross national product (BEA)	Ann. rete, bil. dol	1528.8	1706.5	1810.8	1869.9	1914.9				0.0	0,50	3.3	2.4	
4. Federal Government purchases of goods and services, national defense (BEA)	do	83.9	86.8	89.7	93.4	96.0						4.1	2.8	
3. National defense purchases as a percent of GNP (BEA) ³	Percent	5.5	5.1	5.0	5.0	5.0						0.0	0.0	
DVANCE INDICATORS OF DEFENSE ACTIVITY	0.00		1.30			4 1			1700			3 300		
ense Dept. gross obligations incurred (DOD):				V.		1			1	WORD TY	Sella B	in arms		ı
817. Total	Ann. rate, bil. dol	98.5	109.9	117.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	ı
621. Procurement	do	20.4	24.6	24.2	NA	NA	NA	NA.	NA	NA	NA	NA	NA	ı
Government for national defense (Tressury) Defense Department military prime contract	do	104.1	117.9	126.3	124.9	NA	NA	NA	NA	NA	NA	-1.1	NA	L
awards for work performed in the U.S. (DOD) Defense Department gross unpaid obligations	Bil. dol., end	43.3	50.1	51.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	ı
outstanding (DOD).	of period	41.3	50.1	52.4	53.3	NA	48.8	NA	NA	NA	NA	1.7	NA	ı
. Mfrs.' new orders, defense products (Census)	Ann. rate, bil. dol	25.2	29.5	24.2	36.3	22.2	24.0	19.6	51.8	-18.3	164.3	50.0	-38.8	ı
Manufacturers' new orders from the U.S. Government, serospace industries (Census)	do	18.3	21.2	18.0	25.7	NA						42.8	NA	ı
Average weekly overtime hours, production workers, defense products industries (BLS) ¹	Hours	2.5	2.5	2.8	3.0	2.8	2.6	2.8	NA	0.2	NA	0.2	-0.2	ı
Accessions, defense products industries (BLS)1.	Number per 100 employees	1.4	1.6	2.3	2.2	NA	2.0	NA	NA	NA	NA	-0.1	NA	ı
Layoffs, defense products industries (BLS) ¹	do	1.2	0.7	0.5	0.4	NA	0.5	NA	NA	NA	NA	-0.1	NA	ı
INTERMEDIATE AND FINAL INDICATORS OF DEFENSE ACTIVITY		In T		L HOS		lean (PHAT I	mania sol be	on les	laya w drácm	artirus to mai	100	angay	ı
7. Output of defense and space equipment (FRB)	1967=100 Bil. dol., end	80.0	78.4	78.3	80.1	80.7	80.8	80.8	78.4	0.0	-3.0	2.3	0.7	ı
. Mfrs.' unfilled orders, defense products (Census)	of period	6.6	6.6	6.5	6.9	6.9	6.9	6.9	NA 31.6	0.0	NA 6.0	6.2	0.0	l
Menufacturers' unfilled orders from the U.S. Government, serospace industries (Census)	do	21.8	21.7	23.0	24.3	NA.					0.0		200	ı
. Defense Department progress payments out-							•••	•••	***	***		5.7	NA	ı
standing (DOD) (3)	do	11.3	8.5	8.5	8.7	NA	***	***	***	***		2.4	NA	ı
670. Total	Thousands do	1,118 570	1,064	1,066	1,081	1,087	1,084	1,084	NA NA	0.0	NA NA	2.1	0.6	ı
I. Index of aggregate weekly hours, defense products industries (BLS)	1967=100	66.0	62.8	63.4	64.4	64.8	64.7	64.5	NA	-0.3	NA	1.6	0.6	ı
 Index of aggregata weekly payrolls, production workers, defense products industries (BLS) 	do	100.5	101.2	107.2	112.6	115.3	114.5	116.2	NA	1.5	NA	5.0	2.4	ı
ense Department personnel (DOD): © 877. Military, active duty	Thousands, and	The last			2(12)11-2-9	-							1	l
878. Civilian, direct hire employment	of period	2,084 1,028	2,072 995	2,075 995	2,075	2,075 982	2,073 998	2,075 982	2,072 NA	0.1	-0.1 NA	0.0	0.0	l
fense Department net outlays (DOD): 680. Total, military functions and military	Ann. rate,			(1.30	667	111	MINI		-	J 173	THE SAID	100		ı
assistance, 682. Procurement	bil. dol	88.5	88.3	95.6 18.5	93.9	105.1	100.4	107.3	97.1	6.9	-9.5 7.8	-1.8 -5.9	11.9	ı
3. Budget outlays for the national defense function (Treesury)	do	92.5	89.1	96.7	95.2	107.7	100.4	108.9	99.5	8.5	-8.6	-1.6	13.1	ı
5. Defense Dept. personnel compensation (DOD) B. Mfrs.' shipments, defense products (Census)	do	34.6	35.5	36.1	37.2	37.4	37.3	37.9	NA 29.5	1.6	NA -4.2	3.0	0.5	ı
Manufacturers' shipments to the U.S. Government, serospace industries (Census)		17.3	19.1	21.1	100			101	10111	11111	MALE			ı
1. Ratio, manufacturers' unfilled orders to shipments,	Ratio				20.2	NA	•••	•••	***	***	•••	-4.3	NA	ı
defense products (Census) Ratio, menufacturers' inventories to shipments, defense products (Census)	do	3.1	3.0	11.8	12.5	12.0	12.3	2.7	12.9 NA	-5.7 -3.6	11.2 NA	5.9	3.8	١
DEFENSE-RELATED BALANCE OF PAYMENTS COMPONENTS														
16. Transfers under U.S. military agency seles	Ann. rate,									1.00	100			1
contracts—exports (BEA) ¹ . 47. Direct defense expenditures—imports (BEA) ¹ (3).	mil. dol do	3,919 4,795	5,213 4,847			NA NA	• • • •	• • •	• • •			88 296	NA NA	
98. U.S. Government cash receipts associated with military sales contracts (BEA) ¹ (Q	do	4,587	8,213	7,968	7,540	NA						-428	NA	1

NOTE: This table is presented as a convenient summary of the current data for many of the indicators in this report. In many cases, data shown here are rounded to fewer digits or are in different units than those shown in tables 1, 2, 3, and 4. Where evailable, annual figures are those published by the source agencies; otherwise they (and the querterly figures for monthly series) are averages or totals of the data as shown in the data tables. Series are secondly adjusted except for those indicated by @, which appear to contain no second in overerent.

NA = not available. 251£ferences rather than percent changes are shown for this series.

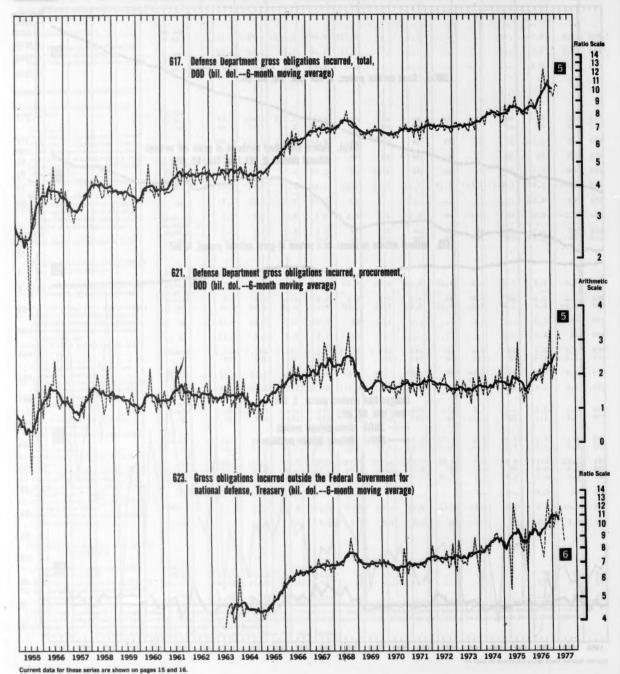
Gross National Product and National Defense Purchases

CHART



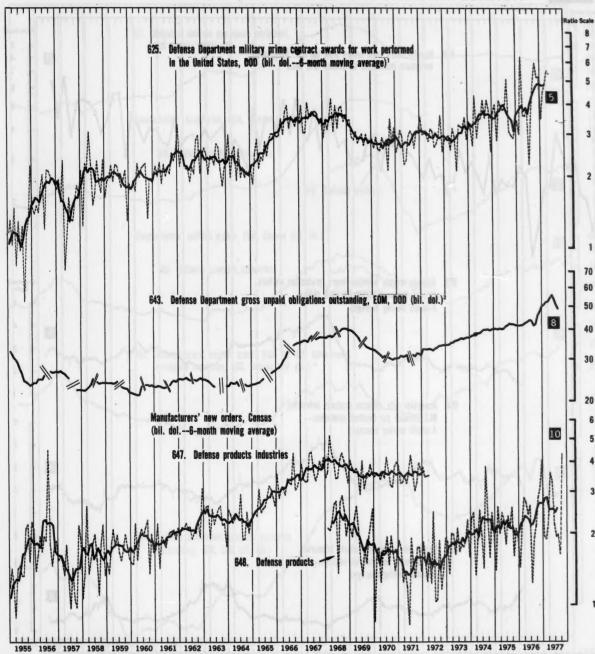


Advance Indicators of Defense Activity



6



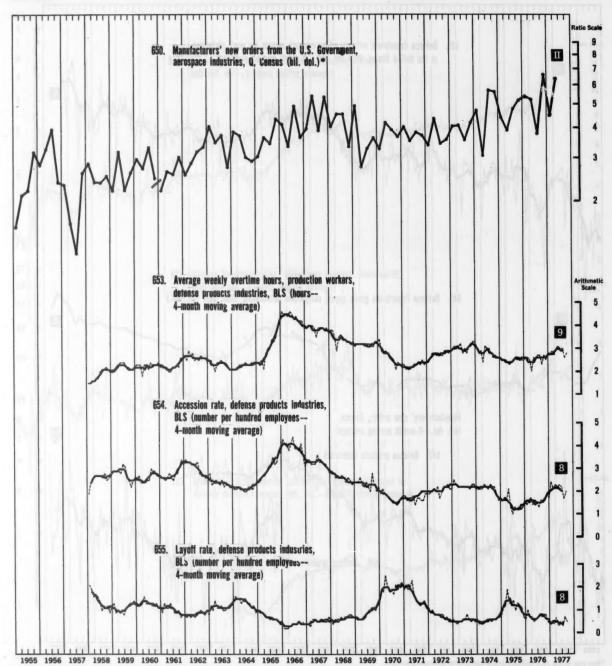


¹ Data prior to July 1955 exclude orders written to other Government agencies.

20ata for the following months not available: July of 1956-71; August of 1956-87 and 1963-68; September of 1957, 1963, and 1965; and Cotober and November of 1963.

Current data for these series are shown on pages 16 and 20

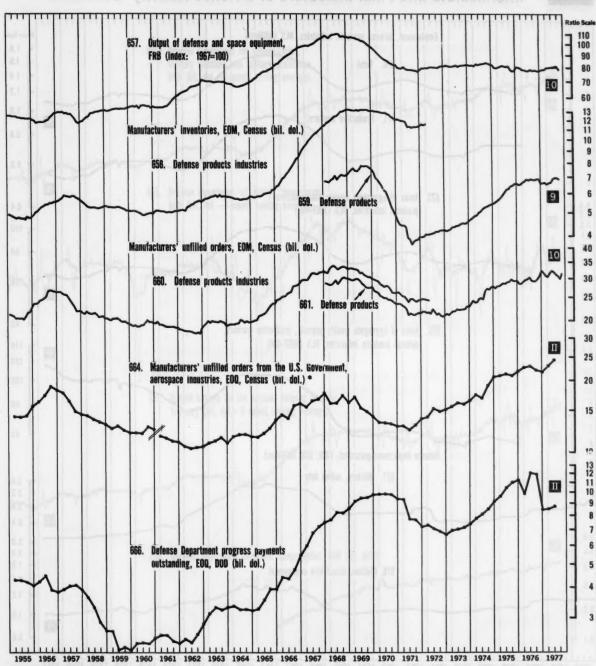




Data prior to 1961 include orders from non-Government customers. Current data for these series are shown on pages 20 and 21.

Intermediate and Final Indicators of Defense Activity





Data prior to 1961 include orders from non-Government customers. Current data for these series are shown on page 22.

0



Intermediate and Final Indicators of Defense Activity--Continued

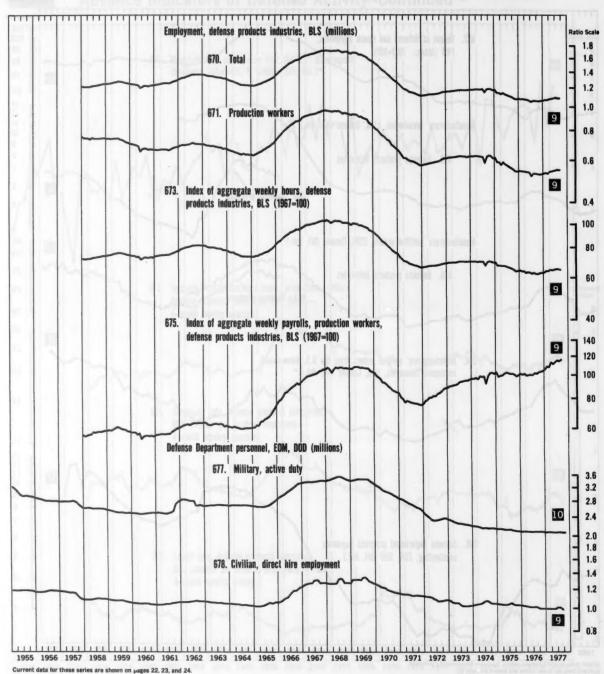
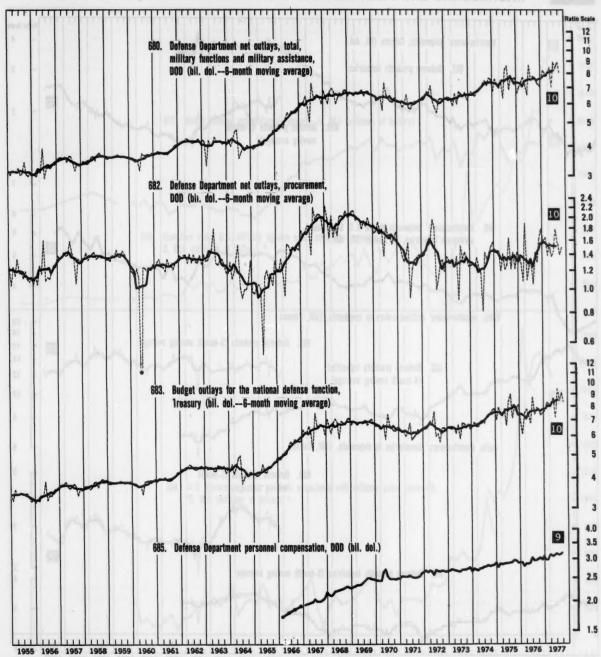


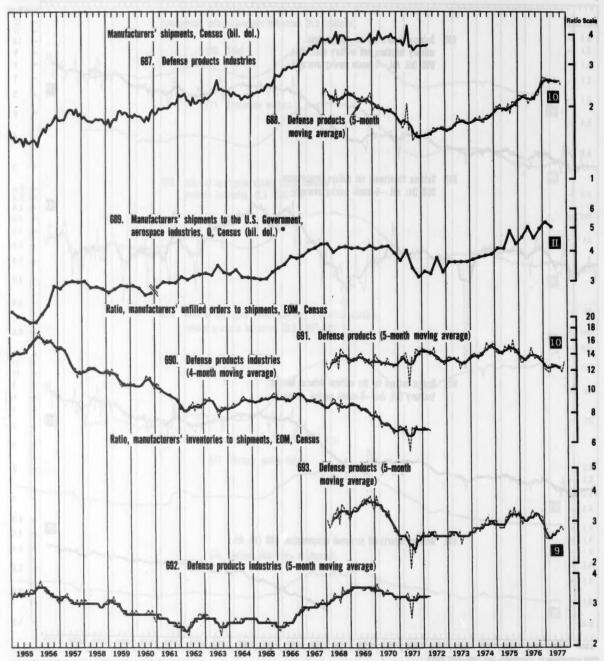
CHART 3

Intermediate and Final Indicators of Defense Activity--Continued



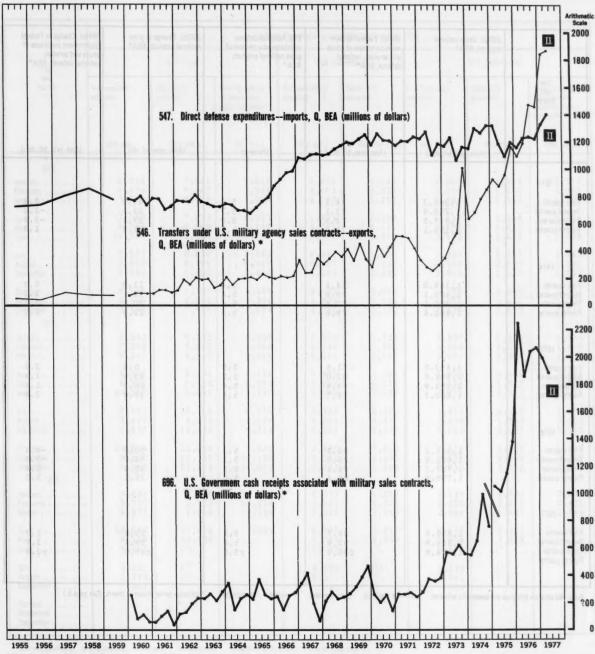
♦Net expenditures for procurement, June 1960--\$245 million. Current data for these series are shown on pages 24 and 25.

Intermediate and Final Indicators of Defense Activity--Continued



*Data prior to 1961 include shipments to non-Government customers. Current data for these series are shown on page 26.

Defense-Related Balance of Payments Components



♦See footnotes 1 and 2 on page 27., Current data for these series are shown on page ≥7.

3



Gross National Product and National Defense Purchases

Year and quarter	200(a). Gross national product, BEA*			200(b). Change in gross national product, BEA*	264(b). Change in Federal Government purchases of goods and services, national defense, BEA*
	(Ann. rats, bil. dol.)	(Ann. rate, bil. dol.)	(Percent)	(Ann. rate, bil. dol.)	(Ann. rate, bil. dol.)
1973	W. IIIII		NIII		
First quarter Second quarter Third quarter Fourth quarter	1;265.3 1,288.4 1,317.5 1,355.1	74.1 73.1 72.5 74.4	5.9 5.7 5.5 5.5	45.9 23.1 29.1 37.6	0.8 -1.0 -0.6 1.9
1974		T. WAR		MINH	
First quarter Second quarter Third quarter Fourth quarter	1,369.0 1,400.1 1,430.1 1,452.4	74.6 75.8 77.9 79.6	5.4 5.4 5.4 5.5	13.9 31.1 30.0 22.3	0.2 1.2 2.1 1.7
1975			to the part of		4. 1
First quarter Second quarter Third quarter Fourth quarter	1,453.0 1,496.6 1,564.9 1,600.7	81.6 83.0 84.4 86.7	5.6 5.5 5.4 5.4	0.6 43.6 68.3 35.8	2.0 1.4 1.4 2.3
1976				434	
First quarter Second quarter Third quarter Fourth quarter	1,651.2 1,691.9 1,727.3 1,755.4	86.3 86.0 86.4 88.4	5.2 5.1 5.0 5.0	50.5 40.7 35.4 28.1	-0.4 -0.3 0.4 2.0
1977	//				المريانا
First quarter	1,810.8 1,869.9 r1,914.9	89.7 93.4 r96.0	5.0 5.0 r5.0	55.4 59.1 r45.0	1.3 3.7 r2.6

Note: All date on this page are seasonally adjusted. NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 5.)



Advance Indicators of Defense Activity

	-		Defen	se Department gross	obligations incurred,	DOD		
Year	1 1	617. Total		619. Op	perations		621. Procurement	
and month	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted*	Moving averag of seasonally adjusted data- 6-month*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1975								
lanuary	8,252	7,341	7,916	5,471	5,148	1,895	1,603	1,77
ebruary	6,904	7,467	7,958	4,604	5,220	1,569	1,575	1,75
March	7,526	8,677	7,956	4,787	5,251	1,994	1,960	1,70
April	7,403	7,933	8,033	5,424	5,209	1,147	1,448	1,67
May	6,796	8,199	8,246	4,761	5,121	1,147	1,813	1,71
lune	11,027	8,583	8,569	6,275	5,560	2,693	1,644	1,93
July	9,903	8,614	8,440	6,641	5,624	1,510	1,827	1,86
August	9,812	9,406	8,516	5,337	5,327	2,508	2,940	1,89
September	7,705	7,907	8,494	5,203	5,442	1,506	1,515	1,79
	0.045	0 207	0.005	1 - 0 - 0 - 0 - 0	1711			
October	9,045 6,976	8,387	8,385	6,130	5,660	1,733	1,605	1,78
December	7,156	8,069 7,925	8,304	4,829 4,895	5,334 5,373	1,320	1,206	1,72
1976	/,130	7,923	8,004	4,095	07-1	1,420	1,612	1,51
January	8,652	8,132	8,220	6,010	5,729	1,697	1,453	1,59
February	7,206	7,962	8,344	4,745	5,203	1,664	1,672	1,67
March	8,241	8,842	8,461	4,995	5,354	2,093	2,014	1,77
April	8,677	9,134	8,556	5,946	5,784	1,688	2,096	1,84
May	6,825	8,772	8,553	4,828	5,419	1,155	1,828	1,95
June	11,319	8,491	8,365	5,949	5,059	3,218	1,983	1,97
July	9,593	8,116	8,628	6,362	5,369	1,812	2,157	1,99
August	7,427	6,833	9,148	5,055	5,010	1,458	1,747	2,00
September	9,840	10,424	9,412	6,120	6,335	2,152	2,147	2,07
	10.444			1000				
October	12,635	12,255	9,831	7,447	7,012	2,312	2,157	2,28
December	9,620	10,355	10,120	5,561 5,341	6,145	2,497	2,258	2,23
1977	1 3,,,,,,	11,003	10,041	3,341	3,002	2,033	3,270	2,31
170	0.000	0.040	10.400					
January	9,838	9,848	10,480	6,352	6,114	2,138	1,842	2,28
February	8,787 8,957	9,963	10,216	5,501	6,223 5,928	2,206 2,086	2,219	2,47
	1,444	1 2 2 2 2	100111					
April	10,092	10,668	(NA)	6,365	6,271	2,640	3,251	(NZ
May	8,140	10,436	La Pari	5,344	5,984	1,908	3,024	
June	9,450	(1)		5,739	(1)	2,077	(1)	
July	8,331	(1)		6,195	(1)	1,249	(1)	1111 0
August	8,748	(1)		5,337	(1)	1,861	(1)	
September	(NA)	1111		(NA)	1	(NA)	1	
October		1963.9			1890			
December		1				1		1

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 6.) *See "New Features and Changes for This Issue," page 3.



	623. Gross obligation outside the Fede	ral Govern-	and the		Defense Departme work perfor	ent military prime med in the United		or	
Voca	ment for national Treasury	il detense,	1117	625. Total		626.	Aircraft		le and space tems
Year and month	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not seesonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Not sessonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1975			41.1	STAN	11147	7,110	1255		. MAL
January	8,069	8,422	3,567	3,693	3,494	1,062	1000	346	
February	8,271	7,894	3,321	3,987	3,488	509	1,873	276	1,200
March	8,590	8,472	2,625	2,817	3,513	421		244	
	5 225	me aca	2 034	4 100	2 700	226	1772	277	100
April	5,335	p8,863 p9,084	2,914 2,713	4,122 3,926	3,720	316 386	1,524	377	1,45
May	p10,487	p9,084	6,626	3,773	3,744	732		537	
June	P10,401	23,233	0,020	3,773	3,323	/32	2.00	337	
July	9,397	p9,176	4,376	3,842	3,969	810		661	
August	9,321	p9,592	5,295	5,072	3,776	1,254	2,413	1,070	1,46
September	8,092	p9,137	3,179	3,080	3,600	469		379	
			100	111111111111111111111111111111111111111	1 341	1000	1 11/27		
October	7,830	8,479	3,174	2,961	3,493	817		463	
November	9,697	8,492	2,608	2,872	3,420	373	1,770	498	1,31
December	6,537	8,467	2,870	3,130	3,074	483		426	. attan
1976			101.0	1000.0		1 there			
January	9,476	8,870	3,288	3,407	3.612	546	1 1000	341	
February	9,168	9,235	2,529	2,993	3,716	356	2.744	278	1,23
March	10,511	9,142	5,356	6,309	3,832	2,064		243	
moral		7,2	0,000	1 0,000	10000	- 1111	1 1500	1	1.00
April	10,022	p9,616	2,600	3,586	3,946	326		290	
May	9,137	p9,410	2,563	3,565	3,751	576	2,694	213	1,37
June	p9,383	p9,100	6,843	3,817	3,863	1,562		602	
1.4							1 5 5 5 1		
July	8,238	p9,114	2,592	2,234	3,633	416		287	1 ::
September	7,307	p9,557	3,969	3,665	4,025	914	2,011	422	84
September	10,597	p9,650	4,934	4,929	4,294	799		521	
October	12,679	10,034	6,269	5,942	4,524	896	1.12	771	
November	9,698	10,290	4,580	5,175	4,731	1,140	3,661	1,060	2,34
December	11,684	10,958	4,543	5,198	4,866	1,442		639	mul Q.
1977									
,					1		1 1		Carre Layer
January	9,777	10,938	3,360	3,478	4,851	955	. :::	355	. ::
February	11,313	10,825	3,685	4,472	4,780	959	2,380	362	1,92
malGI	10,476	10,976	4,325	4,843	4,809	680		610	
April	12,000	10,465	4,041	5,513	(NA)	1,274		371	
May	10,605	(NA)	3,778	5,351	(1475)	852	(1)	309	(1)
June	8,617	()	3,349	(1)		695	1	387	'/
							1 4 5	1	The same you
July	(NA)		3,696	(1)		1,280		354	1
August			3,750	(¹)		494	1 1 1 1 1 1	251	1
September			(NA)			(NA)		(NA)	-
October									udino
November				1					200000
December									

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See pages 6 and 7.)

'See "New Features and Changes for This Issue," page 3.



			Defense Department mi in the l	litary prime contract aw United States, DOD-Co		d			
Year	628. Ships, not seasonally adjusted	629. Weapons	and ammunition		nd communications oment	631. Combat vehicles			
and month		Not seasonally adjusted	Sessonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted (Mil. dol.)		
(10) (80)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)			
1975									
January	325	125		414		21			
February	251	160	537	331	1,404	66	288		
March	11	217	•••	535		52			
April	621	147		313		23			
May	94	128	577	587	1,305	86	191		
June	858	672		696		161			
July	250	52		394		126			
August	814	126	545	470	1,410	70	259		
September	439	95		430		90			
October	80	128		435	18	-			
November	114	66	375	435	1,280	67	17:		
December	211	146	3/3	332	1,200	62	1/1		
1976									
January	310	76		263		48			
February	124	101	348	305	1,110	26	238		
March	1,213	148		442		61			
Amel	306	158		348		22			
April	65	135	447	381	1,204	32 63	415		
June	346	450		735	1,204	512	1		
	506								
July August	91	52 90	1,112	207	1 470	150	1 33		
September	396	418	1,112	664	1,478	119	24:		
			1		1	1			
October	861	108	:::	410	1	252	1 22		
November	153 178	121	453	710 566	1,778	204	68:		
1977	1,0	1/3		366		204			
170							1783		
January	283 478	90	427	427	1 :::	74	:::		
February	483	131	427	436 473	1,470	74 152	56		
					1		1		
April	322 273	193	(3) ***	615	/11 ***	25	435.0		
June	288	225 132	(1)	521 512	(1)	71	(,)		
				1 312		09			
July		133		460		39			
August		r218		r731		65			
September	(NA)	(NA)		(NA)		(NA)			
October							1000		
November							-		
December					-		7000		

NA=not available; p=preliminary; r=revised; e=estimated.

^{&#}x27;See "New Features and Changes for This Issue," page 3.



		[0]	Defense Depart	ment militery prime in the United State	contract awards for ves, DOD—Continued	vork performed		
Vana	632. Othe	er hard goods	633. Sc	oft goods	634. Cor	estruction	635. S	ervices
Year and month	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
-214-90-	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1975								2001
January February March	154 143 152	497	217 704 191	1,489	168 134 127	481	307 341 201	1,39
April	147 165 399	487	164 121 213	658	156 291 1,073	838	190 211 574	92
July	104 115 150	532	811 307 256	937	82 61 178	486	634 570 204	1,13
October	201 156 179	631	173 214 244	687	149 56 176	605	216 210 121	52
January February March	190 180 166	590	817 330 187	1,611	85 107 151	448	244 256 230	1,11
April	173 159 316	434	221 120 243	780	198 213 791	611	179 158 587	88
July	92 177 324	792	287 513 171	646	79 196 403	1,073	335 504 429	1,01
October	105 226 199	600	1,760 220 295	2,603	42 82 136	385	660 391 275	1,35
January February March		635	163 181 538	944	125 101 175	594	241 371 242	1,23
April	203	(1)	166 156 200	(1)	142 456 228	(1)	211 220 204	(2)
July	r229		170 191 (NA)		160 531 (NA)	1 1 1	215 243 (NA)	
October							1	-

NA=not available; p=preliminary; r=revised; e=estimated.

¹See "New Features and Changes for This Issue," page 3.

TABLE

Advance Indicators of Defense Activity--Continued

		in the	640. Defense Department military prime contract awards for					
Year	636. Contracts	s under \$10,000		onal and nonprofit titutions	638. Civilian Health and Medical Program of the	work outside the United States, DOD		
and month	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted			Not seasonally adjusted	Seasonally adjusted	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	
1975								
January	372		51		5	114		
February	345	1,144	61	205	0	93	388	
March	419		53		2	96		
Anail	420							
April	418	. :::	42	:::	0	73	:::	
May	367	1,141	35	201	0	86	813	
June	635	•••	76	•••	0	558		
July	263		184		5	244		
August	345	1,218	92	253	i	149	317	
September			80		0	124		
0							-	
October		. :::	67	***	0	252	***	
November	412	1,273	50	192	0	164	941	
December	408		82		0	255		
January	327		39		2	286		
February	416	1,156	48	163	2	95	681	
March	405	1,130	44	103	2	139		
April	200		-			149		
May		1 100	68	:::	1	147	***	
June		1,100	50 73	254	0	93 306	609	
Julio	023		/3	•••	1	300		
July			74		0	208		
August	351	1,458	55	142	0	132	424	
September	615		74		1	347		
October	201		203		0	575		
November		892	127	415	0	107	96	
December			78		0	175		
1977	1	=	10			1,3		
11-03	365		60		0	362	1 111	
January	365	1,279	69	285	0	74	871	
March	528	1,2/9	91	205	. 0	191		
					1 11 11 11	1-11-1		
April	420		65	/	0	101	/1100	
May		(1)	41	(1)	0	103	(1)	
June	384	1 1 1 1 1 1	36		0	157		
July	449		47	1	0	190		
August		1 123.15	50		0	174		
September	(NA)	,	(NA)	1 1 1 1 1 1 1 1 1 1	(NA)	(NA)		
October	Parent and a			1 1 1 1 1 1 1				
October November								
December							1	

NA=not available; p=preliminary; r=revised; e=estimated.

See "New Features and Changes for This Issue," page 3.



THE RESERVE TO SERVE THE PERSON NAMED IN	Marine Commission	Defense Dep	artment gross unpa	id obligations out	standing, DOD			ufacturers'	650. Manufac- turers' new orders from the U.S. Govern- ment, aerospace industries,
Year	643	. Total	644. 01	perations	645. Pr	ocurement		s, Census	
and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 6-month*	Census, seasonally adjusted*
100 (00)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)					
1975									1976
January	40,819	40,052	7,997 7,520	7,625	25,484	24,838 24,568	1,398	2,004	4,415
March	39,473	40,198	7,169	7,775	25,688	25,259	1,996	2,118	
April	38,589	39,918	7,276	7,794	24,932	24,957	2,445	2,080	2 010
May	37,120 39,557	40,086	6,746	7,713 8,005	24,321 25,311	25,099 25,438	2,266 1,799	2,242 2,167	3,912
July	e41,470	e41,437	e8,733	e8,548	e25,167	e25,370.	2,367	2,262	
August	43,248	42,140	8,677	8,132 8,216	26,070 26,002	26,684 26,479	2,130 2,563	2,123	4,783
October	43,754	41,845	9,259	8,247	26,081	26,238	1,610	2,118	160 170
November December	42,767	41,468	8,804 8,261	8,353 8,241	25,810 25,507	25,707 25,305	2,100 1,937	1,963	5,227
1976	With the same						2000		BARI.
January	42,110	41,358	8,947 8,538	8,548	25,503 25,586	24,905 24,841	1,440 2,194	2,017 2,197	5,426
March	41,046	41,866	7,966	8,658	25,783	25,277	2,818	2,247	
April	41,029	42,494	8,253 7,795	8,827	25,606 25,125	25,657 25,929	2,690	2,360	5,272
June	42,152	43,612	8,037	8,780	26,508	26,482	2,614	2,280	3,
July	43,366	43,251	8,939	8,717	26,537	27,162	1,239	2,169	2 016
August	42,525 43,351	41,406	8,569 8,615	8,025 8,160	26,346 26,832	26,802 27,185	1,919 2,153	2,194 2,318	3,818
October	47,890	45,813	10,624	9,484	27,632	27,827	2,840	2,557	00000
November December	48,988 50,354	47,517 50,103	10,700	10,184	28,934 29,348	28,733 29,202	3,141 4,050	2,675 2,670	6,663
1977 January	51,694	50,780	11,150	10,660	20 066	20 465	1,949	2,680	VAGUAGE
February	52,016	52,016	11,122	11,326	29,966	29,465 29,946	1,887	2,806	4,49
March	100	52,373	10,563	11,494	30,550	30,128	2,214	2,832	loud.
April	52,309 51,512 51,549	54,206 55,749 53,308	10,978 10,574 10,320	11,729 12,098 11,254	31,330 31,390 31,449	31,551 32,562 31,449	3,597 3,293 2,182	2,520 2,518 2,536	p6,42
July	50,898 50,133 (NA)	50,695 48,815 (NA)	10,676 9,792 (NA)	10,395 9,169 (NA)	30,853 30,791 (NA)	31,259 31,292 (NA)	1,932 1,998 r1,630	r2,439 p2,559 (NA)	, (NA
October November December							p4,318 (NA)		- redoted redoted reported

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See pages 7 and 8.)



Table of the state		veekly overtime ho efense products inc		654. Acc	cession rate, defens industries, BLS	e products	655. Layoff rate, defense products industries, BLS			
Year and month	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—4-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data— 4-month*	Not seasonally adjusted	Seasonally adjusted*	Moving avera of seasonally adjusted data 4-month*	
	(Hours)	(Hours)	(Hours)	(Per 100 employees)			(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	
1975										
January	2.4	2.5	2.6	1.4	1.6	1.6	1.2	1.1	1.0	
February	2.4	2.5	2.5	1.3	1.6	1.6	1.3	1.2	1.2	
February	2.3	2.5	2.5	1.3	1.6	1.7	2.1	1.9	1.4	
	10-1	B	233-	1	100	11 14 6	1.62		1000	
April	2.1	2.4	2.4	1.9	2.1	1.6	1.4	1.3	1.4	
May	2.0	2.3	2.4	1.3	1.3	1.5	1.3	1.3	1.5	
May June	2.5	2.4	2.4	1.7	1.0	1.4	1.3	1.4	1.2	
		100	6180			1000	91.19	1	11,19	
July	2.2	2.5	2:4	1.6	1.3	1.2	0.8	1.0	1.2	
August	2.6	2.6	2.5	1.6	1.2	1.2	1.2	1.3	1.2	
September	2.8	2.5	2.6	1.7	1.3	1.2	1.0	1.2	1.2	
October	2.7	2.6	2.6	1.4	1.2	1.2	1.0	1.1	1.1	
November	2.7	2.5	2.5	1.0	1.3	1.4	0.8	0.7	0.9	
December	2.9	2.5	2.6	0.8	1.6	1.4	0.6	0.6	0.8	
1976	111111111111111111111111111111111111111	2.5	2.0	0.0	15,05 1.0	1.4	0.6	0.0	0.0	
January	2.5	2.6	2.6	1.3	1.4	1.5	1.1	1.0	0.8	
February	2.5	2.6	2.6	1.3	1.6	1.6	0.8	0.7	0.8	
January February March	2.4	2.5	2.4	1.5	1.7	1.5	0.8	0.7	0.7	
	11111				101		1			
April :	1.7	2.0	2.4	1.2	1.4	1.6	0.6	0.5	0.6	
May	2.3	2.6	2.4	1.6	1.6	1.6	0.6	0.6	0.1	
June	2.5	2.5	2.4	2.1	1.5	1.4	0.6	0.7	0.6	
July	2.4	2.7	2.6	1.6	1.3	1.5	0.7	0.8	0.	
August	2.7	2.7	2.6	2.0	1.6	1.5	0.6	0.7	0.	
August	2.6	2.3	2.6	1.9	1.5	1.5	0.6	0.8	0.	
67.84=	14014	1 1 1 7 1			1 12, 12		I PATT	1		
October		2.7	2.6	1.8	1.6	1.6	0.8	0.8		
November	2.8	2.5	2.6	1.6	1.9	1.7	0.5	0.5	0.	
December	3.2	2.8	2.7	0.9	1.7	1.9	0.3	0.4	0.	
1977	,		1 1000		-	1618			1	
lanuany	2.7	2.8	2.8	2.2	2.4	2.0	0.6	0.5	0.	
January February	2.8		2.8	1.8	2.4		0.5			
March	2.5	2.7	2.8	2.1	2.1		0.9	0.4		
WIGHTON	2.5	2.7	2.0	2.1	2.3	2.2	0.9	0.7	0.	
April	2.6	3.0	2.9	2.0	2.2	2.2	0.4	0.3	0.	
May	2.9		3.0	2.3	2.3	2.2	0.5	0.5	0.	
June	3.0		3.0	2.8	2.2		0.3	0.3	0.	
tota.	100/2				15000		1-08		1	
July			r2.9	2.0	1.7		0.6	0.7		
August			p2.9	2.4	2.0		0.4	0.5		
September	p3.0	p2.8	(NA)	(NA)	(NA)	117.55	(NA)	(NA)		
October	(NA)	(NA)	1 11/2/21			1		Mar I Trans	1	
November		(NA)			0.0.754	11.001	1,250			
		1			1					

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 8.)



Intermediate and Final Indicators of Defense Activity

116	657. Output of defense and space	659. Manufacturers' inventories, defense	661. Manufacturers' unfilled orders,	664. Manufacturers' unfilled orders	666. Defense Department progress		ment in defense stries, total, BLS
Year and month	equipment, FRB, seasonally adjusted*	products, Census, seasonally adjusted*	defense products, Census, seasonally adjusted*	from the U.S. Gov- ernment, aerospace industries, Census, seasonelly adjusted*	payments out- standing, DOD, not seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
	(Index: 1967=100)	(Mil. dal.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Thous.)	(Thous.)
1975				Law India			95.01
January	82.1	5,487	27,221			1,178	1,175
February	79.9	5,565	27,815			1,141	1,141
March	79.7	5,639	27,823	20,907	9,609	1,137	1,142
Parl III	80.2	5,750	28,238	I The Male	1113.2	1,121	1,128
April	80.2					1,121	1,140
May		5,890	28,604	21 220	10 464	1,131	
June	81.6	6,051	28,459	21,230	10,464	1,123	1,127
July	81.0	6,207	28,920			1,110	1,117
August	80.6	6,252	29,007			1,100	1,108
September	81.2	6,399	29,706	20,906	11,008	1,104	1,100
11.0			00.000	7 11 18 10	1111.1	1 007	1 000
October	78.5	6,456	29,237	***		1,097	1,090
November	77.3	6,549	29,264	21,776	11.257	1,089	1,075
December	//./	6,500	29,210	21,776	11,257	1,000	1,075
January	80.5	6,488	28,449			1,084	1,081
February	80.1	6,523	28,438			1,075	1,076
March	79.5	6,634	29,069	22,598	9,848	1,071	1,077
April	78.4	6,720	29,550	1 - 1 - 1 - 1 - 1	1 1 5 A. C. I.	1,066	1,072
May	78.1	6,824	29,727	• • • •		1,061	1,070
June	77.5	6,774	30,294	22,883	12,041	1,060	1,064
delle		.,,,,	30,221	22,000			
July	77.5	6,846	29,422			1,043	1,050
August	78.5	6,804	29,153			1,053	1,060
September	77.6	6,798	29,188	22,020	11,881	1,062	1,059
October	78.0	6,847	29,800	1		1,062	1,056
November	77.6	6,847	30,698			1,066	1,054
December	77.2	6,577	32,231	21,666	8,465	1,070	1,060
1977		.,,					
	78.0	6,609	31,536	Date of the late.	Collins In	1,067	1.06
January	78.5	6,625	30,809			1,067	1,069
March	78.5	6,517	30,411	22,962	8,521	1,061	1,06
		111111111111111111111111111111111111111			1,111	103 - 3.500	
April	79.9	6,602	31,512			1,071	1,07
May		6,637	32,226			1,071	1,079
June	80.3	6,874	31,857	p24,308	8,735	1,083	1,086
July	r80.4	6,936	31,212	1		1,084	1,09
August		6,926	30,707			1,077	r1,08
September		6,854	r29,768	(NA)	(NA)	pl,089	p1,08
October	-70 4	1277.	-21 620		160 11	/ / / / /	/111
November	E	(NA)	p31,630			(NA)	(NA
December			(NA)				10/10/29

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See pages 9 and 10.)



Intermediate and Final Indicators of Defense Activity--Continued

		efense products industries, n workers, BLS		ate weekly hours, defense ndustries, BLS		weekly payrolls, producti oducts industries, BLS
Year and month	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seesonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
ueum	(Thous.)	(Thous.)	(1967=100)	(1967=100)	(1967=100)	(1967=100)
1975						
January	618	615	69.2	69.2	102.8	102.6
February	589	589	67.0	67.0	98.6	98.4
March	585	588	66.8	67.0	99.1	99.4
April	570	574	66.1	66.8	97.6	99.5
	581	588	66.5	66.8	100.2	101.3
	573	577	66.4	66.6	101.2	102.3
July	564	570	65.0	66.1	97.9	101.7
	555	563	64.9	65.6	98.3	101.0
	558	556	65.5	65.1	102.0	101.2
October	554	549	64.9	64.5	101.5	100.4
	549	540	64.6	63.5	101.8	98.7
	549	538	65.0	63.8	104.9	99.8
January	545	542	64.1	64.1	101.3	101.1
February	540	540	63.5	63.5	100.7	100.4
March	537	539	63.3	63.6	100.8	101.1
April	533	537	62.0	62.7	96.1	99.3
	530	536	62.6	63.0	99.2	100.0
	529	533	62.6	62.8	99.4	100.2
July	510	516	61.2	62.2	96.0	99.8
	520	528	62.0	62.7	99.2	101.8
	529	528	62.4	62.0	101.9	101.3
October	529	525	62.4	62.0	104.0	102.6
	532	523	63.5	62.5	106.5	103.6
	533	524	64.1	62.7	109.2	103.8
January	533	529	63.0	62.8	106.4	105.5
February	531	531	63.6	63.7	108.5	108.
March	525	528	63.3	63.6	107.4	107.8
April	534	538 539 543	63.5 63.8 64.6	64.5 64.1 64.6	109.2 110.3 112.7	113. 111. 113.
July		546 r545 p546	64.0 64.0 p64.9	65.1 r64.7 p64.5	110.9 rll1.5 pl17.1	115. rl14. pl16.
October	(AN)	(NA)	(NA)	(NA)	(NA)	(NA

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 10.)



Intermediate and Final Indicators of Defense Activity--Continued

	Defense Departm	nent personnel, DOD		Defen	se Department net outla	ys, DOD	
V	677. Military, active duty, not seasonally	678. Civilian, direct hire employment,	680. To	otal, military functions a assistance	and military	681. 0	perations
Year and month	adjusted*	not seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data-6-month*	Not seasonally adjusted	Seasonally adjusted
	(Thous.)	(Thous.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1975							71
anuary	2,145	1,038	7,051	6,766	7,312	4,775	4,648
	2,146	1,036	7,258	7,590	7,284	4,727	4,924
	2,137	1,034	7,244	7,190	7,258	4,736	4,831
April	2,127	1,034	7,190	6,958	7,056	4,960	4,856
	2,124	1,035	7,780	7,494	7,308	4,909	4,941
	2,128	1,042	7,476	6,336	7,475	4,954	4,747
luly	2,129	1,052	7,124	8,278	7,423	4,918	4,977
	2,111	1,038	7,961	8,594	7,552	5,081	5,029
	2,105	1,030	6,631	6,880	7,566	4,810	5,016
October	2,097	1,031	7,913	7,732	7,788	5,260	5,131
November	2,099	1,029	7,203	7,574	7,515	4,997	4,988
December	2,084	1,028	7,695	7,672	7,251	5,078	5,067
January	2,092	1,023	6,649	6,636	7,326	4,887	4,940
February	2,093	1,019	6,962	7,011	7,322	4,848	4,879
March	2,090	1,016	7,642	7,334	7,259	5,026	4,999
April	2,087	1,011	7,872	7,703	7,068	5,297	5,160
	2,081	1,010	7,042	7,200	7,406	4,889	5,023
	2,082	1,010	7,843	6,525	7,486	5,170	4,925
July	2,087	1,014	7,433	8,663	7,563	5,050	5,135
	2,085	1,006	7,163	7,493	7,546	5,059	5,054
	2,084	997	7,513	7,794	7,562	5,457	5,543
October November December	2,086	995	7,478	7,600	7,657	4,984	5,015
	2,082	996	7,301	7,294	7,477	5,277	5,220
	2,072	995	7,422	7,096	7,614	5,356	5,190
January	2,077	994	6,979	7,586	7,649	5,262	5,436
February	2,078	995	8,004	8,312	7,697	5,202	5,436
March	2,075	995	8,454	8,006	7,911	5,529	5,503
April	2,071	995	7,850	7,889	7,896	5,487	5,443
	2,070	997	8,412	8,575	8,125	5,269	5,349
	2,075	1,009	8,266	7,005	8,135	5,540	5,273
July	2,079	1,008	7,879	8,964	r8,290	5,389	5,449
	2,073	998	8,244	8,370	p8,323	5,505	5,402
	2,075	982	r8,795	r8,938	(NA)	r5,820	r5,87
October	p2,072 (NA)	(NA)	p7,922 (NA)	p8,092 (NA)	17	p5,580 (NA)	p5,753 (NA

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See pages 10 and 11.)

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Intermediate and Final Indicators of Defense Activity-Continued

hand training the	Defense De	partment net outlays, D	OD -Continued		lays for the national ction, Treasury		partment personnel ation, DOD
Year		682. Procurement	Marine and	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted*
and month	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Person	data-o-month		
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1975				1			84
January	1,427	1,428	1,460	7,039	7,554	2,913	2,768
February	1,351	1,444	1,429	7,896	7,526	2,808	2,869
March	1,500	1,440	1,414	7,385	7,536	2,812	2,850
Anall	1,220	1 104	1 254	7 207	7 242	2 063	2 020
April	1,467	1,194	1,354	7,297	7,342 7,564	2,867 2,870	2,870
June	1,409	1,215	1,360	6,649	7,747	2,823	2,887
Julie	-,	1,213		0,045	,,,,,,	2,023	2,00
July	1,225	1,268	1,322	8,367	7,706	2,941	2,895
August	1,559	1,634	1,361	8,996	7,818	2,873	2,910
September	1,191	1,217	1,330	7,140	7,836	2,936	2,961
October	1,500	1,425	1,365	7,971	8,079	3,008	2,954
November	1,081	1,220	1,384	7,896	7,830	2,866	2,893
December	1,319	1,427	1,328	8,103	7,352	2,916	2,904
1976		-,	-,020	1	1 .,,,,,,	1,,,,,	
January		1,384	1,305	6,874	7,411	3,018	2,907
February	1,227	1,293	1,382	6,126	7,380	2,820	2,804
March	1,195	1,082	1,361	7,497	7,286	2,887	2,860
April	1,792	1,884	1,330	7,784	7,068	2,845	2,861
May		1,095	1,321	7,334	7,376	2,851	2,889
June	1,418	1,244	1,281	6,795	7,589	3,007	3,036
July		1,326	1,338	8,717	7,656	2,963	2,960
August	1,063	1,055	1,241	7,409	7,649	2,962	2,96
September	1,356	1,423	1,328	7,896	7,653	2,978	2,99
October	1,337	1,303	1,418	7,743	7,776	3,026	3,03
November	1,502	1,617	1,462	7,360	7,610	3,020	2,97
December		1,781	1,561	7,530	7,764	3,097	3,088
1977							1021
January	1,524	1,594	1,554	7,723	7,802	3,034	2,95
February	1,570	1,646	1,596	8,331	7,802	2,886	2,95
March	1,511	1,381	1,552	8,125	8,060	3,137	3,11
April		1,555	1,496	8,000	7,996	3,008	3,06
May	1,324	1,358	1,526	8,650	8,289	3,084	3,08
June	1,643	1,442	1,509	7,146	r8,296	3,112	3,14
July	1,572	1,772	1,511	9,483	8,455	3,054	3,08
August		1,547	p1,502	r8,370	8,504	r3,146	r3,10
September		r1,391	(NA)	9,079	(NA)	p3,129	p3,15
0.1		ALC: NO.				and the state of	
October	Lalena	pl,500	1 17	8,294		(NA)	(NA
November	(NA)	(NA)		(NA)			

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 11.)

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Intermediate and Final Indicators of Defense Activity--Continued

		rs' shipments, defense ts, Census	689. Manufacturers' shipments to the		turers' unfilled orders ase products, Census		cturers' inventories to e products, Census
Year and month	Seasonally adjusted*	Moving average of seasonally adjusted data—5-month*	U.S. Government, serospace industries, Census, seasonally adjusted*	Seasonally adjusted*	Moving everage of seasonally adjusted data—5-month*	Seasonally adjusted*	Moving everage of seasonally adjusted data—5-month*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Ratio)	(Ratio)	(Ratio)	(Ratio)
1975							ren
January	1,923	1,902		14.2	14.6	2.9	2.9
February	1,982	1,950	4,105	14.0	14.3	2.8	2.9
March	1,989	1,965		14.0	14.2	2.8	2.9
	2,030	1 060		13.9	14.3	2.8	2.9
April	2,030	1,969 1,954	4,104	15.0	14.5	3.1	3.0
May	1,943	1,965		14.6	14.6	3.1	3.1
June	1,543	1,505		14.0	14.0	3.1	3.1
July	1.906	1,931		15.2	15.0	3.3	3.2
August	2,043	1,967	4,847	14.2	14.8	3.1	3.2
September		1,993		15.9	14.7	3.4	3.2
October	2,079	2,010		14.1	14.6	3.1	3.2
November	2,073 1,991	2,042	4,283	14.1	14.3	3.3	3.1
December	1,991	2,110	•••	14.7	13.7	3.3	3.1
	2 201	2 122		12.9	13.6	2.9	3.1
January	2,201	2,132		12.9	13.4	3.0	3.0
February		2,159	4,564	13.3	13.4	3.0	3.0
March	2,187	2,200		13.3	13.2	3.0	3.0
April	2,210	2,175		13.4	13.6	3.0	3.1
May	2,224	2,156		13.4	13.8	3.1	3.1
June	2,047	2,156		14.8	13.8	3.3	3.1
July	2,111	2,137		13.9	13.8	3.2	3.2
August		2,138			13.8	3.1	3.2
September		2,178		13.8	13.6	3.2	3.1
October		2,258		13.4	13.4	3.1	3.0
November		2,350			13.1	3.1	2.9
December	2,515	2,450		12.8	12.7	2.6	2.6
1977							1101
January	2,647	2,526		11.9	12.4	2.5	2.0
February		2,577	5,277	11.8	12.1	2.5	2.5
March	2,611	2,589		11.6	12.1	2.5	2.
April	2,496	2,570	Land to be sta	12.6	12.2	2.6	2.0
May		2,563	p5,054		12.3	2.6	2.0
June		2,541	p3,034		12.4	2.7	2.
July	2,578				r12.2	2.7	2.
August						2.8	· (NA
September	r2,568	(NA)	The state of	rll.6	(NA)	2.7	1
October	p2,457			p12.9	001.15	(NA)	1
November				(NA)		(146)	-
December	,,		3/4/11	1			

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 12.)



Defense-Related Balance of Payments Components

20 10 11	546. Transfers und sales contract	der U.S. military agency ts (exports), BEA ¹	547. Direct defense expenditures (imports),		nt cash receipts associated ales contracts, BEA ²
Year and quarter	Not seasonally adjusted	Seasonally adjusted*	BEA, not seasonally adjusted*	Not sessonally * adjusted .	Seasonally adjusted*
10.10	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1973	1200 1100 1100		Service our second		
First quarter Second quarter Third quarter Fourth quarter	332 504 489 1,017	347 455 531 1,009	1,169 1,231 1,067 1,162	520 544 610 .616	566 552 617 555
1974	Es India	11 17 6	e to be less to		
First quarter Second quarter Third quarter Fourth quarter	644 738 720 850	638 683 781 850	1,153 1,298 1,265 1,319	497 642 995 808	546 650 990 756
1975					
First quarter	946 888 902 1,183	924 874 957 1,164	1,317 1,185 1,096 1,198	1,050 1,013 1,148 1,376	(NA)
1976					
First quarter Second quarter	1,132 1,193 1,403 1,486	1,095 1,189 1,472 1,457	1,160 1,228 1,237 1,222	2,246 1,858 2,041 2,068	
1977	1.31	3.40	4.00	A STATE OF THE PARTY OF THE PAR	
First quarter Second quarter Third quarter Fourth quarter		1,845 pl,867	1,329 pl,403	1,992 pl,885	

NA=not available; p=preliminary; r=revised; e=estimated. *Indicates series shown in charts. (See page 13.)

^{*}Includes delivables for which Israel has been released from its contractual liability to pay.

**Excludes funds me available to release Israel from its contractual liability to pay for defense articles and services purchased through military sales contracts. Quarterly expenditures for such purpose under Public Law 93-199 and subsequent legislation amounted to (in millions); 1974, IIQ, \$623; IIIQ, \$223; IVQ, \$91; 1975, IQ, \$187; IIQ, \$124; IIIQ, \$83; IVQ, \$242; 1976, IQ, \$16; IIQ, \$100; IIIQ, \$743; IVQ, \$5; 1977, IQ, \$138; IIQ, \$245.

*4

Series title						197	17					
MONTHLY SERIES	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Defense Department gross abligations incurred:	V89 1	0.90	alan	a be	telat	Se-F	efer	3				
617. Total ¹	99.9	88.2 88.4	94.7 93.4	94.6 101.5	78.0 89.3	135.2 117.8	112.5	108.5	99.8 96.9	105.3 108.2	92.4	90.1
619. Operations ¹	. 103.9	88.4				117.8		101.2	96.9			
621. Procurement	. 116.1	99.4	105.0	81.2	63.1	161.4	84.7	82.6	100.7	106.8	111.2	87.
for national defense 1	. 101.3	84.9	99.6	94.1	82.8	126.3	117.7	110.0	96.5	95.2	103.3	90.
325. Defense Department military prime contract awards for work	527	atela Toere	D47, L		BLY BORNE	U.S. milli	labnu aish	neil ded	30.0	30.2	100.0	30.
performed in the United States	. 96.6	82.4	89.3	73.3	70.6	177.9	115.5	107.1	101.4	111.0	86.7	87.
Defense Department amore unpaid obligations outstanding 3	And	*USGS 101	tauiba i		etauibe vi	Seasonal		vila	002898 10			
Defense Department gross unpaid obligations outstanding: 2 1974 643. Total.	101.8	100.0	98.0	96.5	92.4	96.7	100.4	102.7	103 1	104.5	103.1	100.
644. Operations	. 1 104.6	98.2	91.9	93.6	87.4	91.7	102.7	106.8	105.6	111.9	104.9	100.
645. Procurement	. 101.7	101.8		99.3	96.4	100.0	98.7	98.4	99.6	100.8	101.3	100.
48. Manufacturers' new orders, defense products ³		93.7	97.3	82.5	65.3	117.1	186.8	94.1	102.5	106.9	83.8	101.
53. Average weekly overtime hours, production workers, defense												
products industries ⁴		1	- 2	4	2	.0	2	.1	.2	.2	.3	
54. Accession rate, defense products industries ⁴		3	2	2	.0	.6	.3	.4	.4	.2	4	
55. Layoff rate, defense products industries4	1	.1	.2	.1	.0	.0	1	1	1	.0	.0	
Output of defense and space equipment ³ ,	. 100.3		100.4	99.1	ob 99.6	100.3	98.5	98.2	99.6		101.0	102.
59. Manufacturers' inventories, defense products	98.5	100.1	101.1	100.7	99.8	100.4	100.1	100.3	100.3	100.3	100.9	100.
61. Manufacturers' unfilled orders, defense products ³	101.2	100.9	100.6	99.1	96.2	97.4	101.4	101.2	100.9	101.5	100.0	99.
mployment in defense products industries:										1	1973	
670. Total	. 100.5	99.8	99.5	99.4	99.3	99.7	99.2	99.3	100.4	100.6	101.0	100
671. Production workers 052	. 100.8	99.9	99.5	99.2	99.0	99.6	98.7	98.5	100.4	100.9	101.6	
73. Index of aggregate weekly hours, defense products	1,231			455	100		0.4			1000	. ายราธบุร	Second
Industries	. 100.3	99.9	99.6	98.5	99.6	99.9	98.3	99.0	100.6	100.6	101.5	102
75. Index of aggregate weekly payrolls, production workers, defense products industries	201 1			600	1.1		1.1	Det		1 4111	quarter.	Fourth
defense products industries	. 100.9	100.1	99.7	96.6	99.2	99.3	96.2	97.4	100.7	101.4	103.0	105.
efense Department net outlays:									1			
680. Total, military functions and military assistance ¹	. 92.0	96.3	105.6	99.5	98.1	118.0	87.9	98.5	98.4	97.9	103.0	102
681. Operations ¹	96.8	95.8	100.5	100.8	98.5	105.1	98.9	101.9	99.0	97.0	103.3	99
681. Operations ¹	. 295.6					113.9	88.7	98.3	98.6	100.8	93.2	
83. Budget outlays for the national defense function 1	. 891.7	97.6	105.5	99.7	98.9	117.6	8484		98.9	97.5	103.1	103
85. Defense Department personnel compensation ¹					99.9	99.0	9901		99.1	99.7	101.6	
88. Manufacturers' shipments, defense products ³					100.5		94.8		106.1	101.4	96.3	103
QUARTERLY SERIES		10			110		111.1	IIIQ			IVQ	11
00. Gross national product ³		95.9			99.9			98.9			105.1	
64. Fed. Govt. purchases of goods and services, national defense ³ .		98.3	-		102.8		73.0	97.7			101.4	
46. Transfers under U.S. military agency sales contracts-exports ⁵ .		27	11	924			9.0				29	
(201)	1,317		1	374			88	Sec		1	1971600	ab isn d
Defense Department military prime contract awards:	D 6 00			957			02	Đ.		1 1000	181 181/0	onouse on boid?
626. Aircraft 627. Missile and space systems	861.1	109.0		164	90.1		8.8	106.3			95.0	druge
		68.9		8.012	00.7		-	146.2		1	105.3	10.00
629. Weapons and ammunition		93.2			167.3		1111	50.5			88.8	
630. Electronic and communications equipment	•	90.9			121.2			93.8			94.8	
631. Combat vehicles		52.8			164.5			108.3			73.6	
632. Other hard goods		90.7			146.1			75.1			88.3	
634 Construction	. led	93.4		195	72.2		32	146.6			87.4 67.5	
633. Soft goods	. 2228	67.5		1 60	100 6		3.3	120.0			97.8	Encos!
636. Under \$10,000	. 785.						8.0	04 0			96.6	p bud
637. Educational and nonprofit institutions.		77.6		157	76.0		36	149.3			98.2	
840. Outside U.S		71.4			92.3		100	147.6			89.1	
Aerospace industries:												
650. Manufacturers' new orders from the U.S. Government .		90.5	-		82.7		1	122.8			104.4	
684. Manufacturers' unfilled orders from the U.S. Governmen		101.3			96.2			100 3			102.1	
004. Militaracturers diffined orders from the O.S. Governmen	.329				102.6			101.0			102.6	

NOTE: The seasonal adjustment factors presented in this table were computed using the techniques described in the Bureau of the Census Technical Paper No. 15, The X-11 Variant of the Census Method II Seasonal Adjustment Program.

Monthly data for Defense Department military prime contract awards by commodity category (series 626 to 640) have not been adjusted for sessonal variation. The series on direct of defense expenditures—imports (series 547), Defense Department progress payments outstanding (series 666), and Defense Department personnel (series 677 and 678) contain no measurable sessonal variation.

of months but these gaps were filled with averages of preceding and following months for

of months but these gaps were filled with averages of preceding and following months for purposes of estimating seasonal variation.

3 These series have been adjusted by the source agencies. The factors shown here are implicit seasonal factors for the calendar year 1976 and are derived by dividing the seasonally unadjusted data by the seasonally adjusted data.

4 These series have been seasonally adjusted using the additive version of the seasonal adjustment program. Seasonally adjusted data are derived by subtracting the adjustment factor from the unadjusted data. Seasonally adjusted data for other series are derived by dividing the seasonal factors into the unadjusted data.

5 This series is the total of component series which have been adjusted separately by the source agency. The factors shown here are implicit seasonal factors for the calendar year 1976 and are derived by subtracting the seasonally adjusted data from the seasonally unadjusted data.

Factors are products of seasonal and trading-day factors.

²Prior to 1972, data for gross unpaid obligations outstanding are not available for a number

Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY

Part 1. Monthly Series

	Series title	Period covered	ō	CI	Т	Ē	ī/c̄	MCD	Average of run (
		Covered	de USAN	Senson	175	NoT and	7_11/1	0,00	CI	MCB
Defe	nse Department gross obligations incurred:	The second second	0.000	4000	100	100		(by ylim		10.0
	617. Total	Jan. '57-Jan. '76	18.28	6.98	6.89	0.72	9.53	6	1.53	2.3
	619. Operations	July '59-Jan. '76	8.98	2.77	2.66	. 65	4.09	4	1.69	3.0
	621. Procurement.	Jan. '57-Jan. '76	44.28	22.39	22.27	1.54	14.44	6	1.46	2.0
323.	Gross obligations incurred outside the Federal Government for national		BACA	107 37 1	mm		7 1 10 14	1000	CONTROL OF	
	defense	July '63-Sept. '75	14.17	7.92	7.82	.73	10.72	6	1.52	2.6
25.	Defense Department military prime contract awards for work performed									
	in the United States, total	Jan. '57-Jan. '76	32.78	15.55	15.41	1.35	11.42	6	1.42	2.
Jefe	nse Department gross unpaid obligations outstanding:									
	643. Total	Jan. '57-Jan. '76	2.13	1.32	. 95	.88	1.08	2	2.65	3.
	644. Operations	Jan. '67-Jan. '76	5.59	2.68	2.37	1.13	2.10	3	1.96	5.
	645. Procurement	Jan. '67-Jan. '76	2.19	1.52	1.07	. 94	1.14	2	2.08	4.
Mani	afacturers' new orders:									
	647. Defense products industries	Jan. '57-Mar. '72	(NA)	15.11	14.89	. 97	15.32	6	1.58	2.
	648. Defense products	Feb. '68-Jan. '76	(NA)	21.50	21.43	1.47	14.59	6	1.56	1.
53.	Average weekly overtime hours, production workers, defense products					-				
	industries (hours)	Jan. '58-Jan. '76	.22	.11	.11	. 03	3.14	4	2.50	3.
54.		Jan. '58-Jan. '76	.38	.16	.15	. 05	3.12	4	2.16	4.
	Layoff rate, defense products industries (per 100 employees)	Jan. '58-Jan. '76	.17	.14	.13	.04	3.14	4	1.93	4.
	Output of defense and space equipment	Jan. '57-Jan. '76	(NA)	. 96	.50	.75	.67	1	3.40	3.
anı	658. Defense products industries	In- 157 May 170	(22.4.)	- 01		0.5	10		0 00	
		Jan. '57-Mar. '72	(NA)	1.04	.52	.85	.62	1	2.80	2.
	659. Defense productsufacturers' unfilled orders:	Jan. '68-Jan. '76	(NA)	1.75	1.13	1.29	.88	1	3.10	3.
nan	660. Defense products industries	Jan. '57-Mar. '72	(224.)	3 00	00	02	1 00	2	2.76	3.
	661. Defense products	Jan. '68-Jan. '76	(NA)	1.23	1.18	.83	1.09	2	2.04	4.
mn	loyment in defense products industries:	Jan. 00-Jan. 70	(NA)	1.51	1.10	, 93	1.2/	2	2.04	4,
-iiip	670. Total	Jan. '58-Jan. '76	.76	.70	.29	.59	.50	1	4.91	4.
	671. Production workers	Jan. '58-Jan. '76	1.08	.93	.51	.70	.73	1	3.72	3.
73	Index of aggregate weekly hours, defense products industries.	Jan. '58-Jan. '76	.95	.76	.31	.60	.65	1	4.00	4
	Index of aggregate weekly payrolls, production workers, defense products	Jan. 30-Jan. 70	. 95	./6	.39	.00	.03		4.00	-
	industries	Jan. '58-Jan. '76	1.72	1.14	.75	.78	.96	1	2.92	2
Defe	nse Department personnel:	Vani. Oo oan. 70	1.72	1.14	./3	.70	. 30	-	2.32	1 -
	677. Military, active duty @	Jan. '57-Jan. '76	.62	(NA)	.27	.55	.48	1	3.86	3.
	678. Civilian, direct hire employment (1)	Jan. '57-Jan. '76	.55	(NA)	.34	.42	.81	1	4.30	4
Dofe	inse Department net outlays:			(Max)	.54	1.72	1 .02		1 7.50	1
	680. Total, military functions and military assistance	Jan. '57-Jan. '76	8.89	4.31	4.19	.77	5.42	6	1.70	1 3
	681. Operations	July '59-Jan. '76	7.07	3.62		.73	4.69	5	1.58	
	682. Procurement	Jan. '57-Jan. '76	15.10			1.59	7.32	6		
83.	Budget outlays for the national defense function	Jan. '57-Jan. '76	8.87	4.27	4.18	.73	5.73	6	1.58	2
85.	Defense Department personnel compensation	Jan. '67-Jan. '76	2.70	1.33	1.13	.49	2.32	4	2.57	4
fan	ufacturers' shipments:									
	'687. Defense products industries	Jan. '57-Mar. '72	(NA)	2.67	2.49	.87	2.85	3	1.64	3
	688. Defense products	Jan. '68-Jan. '76	(NA)	4.40	4.34	.98	4.41	5	1.57	2
lati	o, manufacturers' unfilled orders to shipments:	Market Street			1		0			
	690. Defense products industries		(NA)	2.95	2.71	. 96	2.82	4	1.90	3
	691. Defense products	Jan. '68-Jan. '76	(NA)	4.93	4.81	1.01	4.77	5	1.69	2
Rati	o, manufacturers' inventories to shipments:	Marine Marine	11.300		MINCO !		1111111	100	1	1
	692. Defense products industries		(NA)			.72		5		
	693. Defense products	Jan. '68-Jan. '76	(NA)	5.29	5.18	1.13	4.57	5	1.96	3

NA = not available

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*Measures for these series are based on actual changes rather than percent changes (see definition below). We indicates measures are based on unadjusted data.

BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 1

The measures in this appendix provide a historical perspective for interpreting current changes in each series. They are derived using the Census X-11 seasonal adjustment program. Brief definitions of the measures are given below; more complete definitions appear in *Electronic Computers and Business Indicators* by Julius Shiskin, issued as Occasional Paper 57 by the National Bureau of Economic Research, 1957 (reprinted from *Journal of Business*, October 1957).

"O" is the average month-to-month percent change, without regard to sign, in the original unadjusted series. (See final paragraph below for exceptions to these definitions.)

"CI" is the same for the seasonally adjusted series.

" \overline{C} " is the same for the short-term trend, which is a smooth, flexible moving average of the seasonally adjusted series.

"I" is the same for the irregular component, which is obtained by dividing the seasonally adjusted series by the short-term trend.

"\(\bar{\capacity}\)\(\bar{\capacity}\) measures the relative smoothness (small values) or irregularity (large values) of the seasonally adjusted series. It is the ratio of the average monthly percent change (without regard to sign) in the irregular component to the average monthly percent change (without regard to sign) in the short-term

"MCD" (months for cyclical dominance) estimates the number of months required for the short-term trend to dominate the irregular component. Average percent changes are computed for spans of from 1 to 12 months for both the irregular component and the short-term trend. MCD is the shortest span of months for which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All MCD's greater than "5" are shown as "6".

Appendix B. AVERAGE CHANGES AND RELATED MEASURES OF VARIABILITY—Continued

"Average Duration of Run" (ADR) is another measure of smoothness and is equal to the average number of consecutive monthly changes in the same direction in any series of observations. When there is no change between two observations, a change in the same direction as the preceding change is assumed. The ADR is shown for the seasonally adjusted series (CI) and the MCD curve, which is a moving average (with the number of terms equal to MCD) of the seasonally adjusted series. A comparison of these measures with the expected ADR of a random series indicates whether the changes approximate those of a random series. In a random series, the expected ADR is 1.5 and the actual values fall between 1.36 and 1.75 about 95 percent of the time. For a moving average of a random series, the expected ADR is 2.

Measures for series identified with an asterisk (*) are computed by an additive method. This method is used for series with zero or negative data, series which could approach zero, and series expressed in percent. In this method, the measures are defined the same as above except for two differences: (1) the measures are based on actual month-to-month changes (rather than percent changes) and (2) the irregular component is obtained by subtracting the short-term trend from the seasonally adjusted series. The average changes shown above for the components of such a series are in the same unit of measure as the series itself. The unit is indicated in the series title.

Part 2. Quarterly Series

	Series title	Period	ō	ci	T	Ē	ī/c̄	QCD	Average of run	
		covered			No Libert	m m Th	1	- Third	CI	QCD
200.	Gross national product	ΙΩ '57-ΙVΩ '75	(NA)	1.84	0.35	1.76	0,20	1	8.33	8,33
264.	Federal Government purchases of goods and services, national defense	10 '57-IVQ '75	(NA)	1.95	.79	1.70	.46	1	3.26	3.26
*546.	Transfers under U.S. military agency sales contracts-exports (mil. dol.)	IQ '60-IVQ '75	79.21	65.13	48.28	34.19	1.41	2	1.70	2.30
*547.	Direct defense expenditures-imports (mil. dol.) (1)	IQ '60-IVQ '75	42.32	(NA)	36.13	24.65	1.47	2	1.66	2.82
*613.	National defense purchases as a percent of GNP (percent)	IQ '57-IVQ '75	(NA)	.16	. 07	.15	.46	1	5.36	5.36
650.	Manufacturers' new orders from the U.S. Government, aerospace industries	IQ '61-IVQ '75	24.44	17 96	14,82	5,85	2,53	3	1.44	1.73
664.	Manufacturers' unfilled orders from the U.S. Government, aerospace	IG 01414 75	24.44	17.30	14,02	3.65	2.33	3	1.44	1.73
001.	industries	IQ '61-IVQ '75	4,55	3.91	2.44	2.68	. 91	1	2.27	2.27
666.	Defense Department progress payments outstanding (1)	IQ '57-IVQ '75	4.80	(NA)	2.06	4.35	.47	1	2,78	2.78
689.	Manufacturers' shipments to the U.S. Government, aerospace industries	IQ '61-IVQ '75	7.04	4.27	3.43	2.11	1.62	2	1.84	2.76
*696.	U.S. Government cash receipts associated with military sales contracts						_, -, -	Ny I		
	(million dollars)	IQ '60-IVQ '75	107.60	83.62	61.48	45.74	1.34	2	1.57	2.82

NA = not available.

BRIEF DEFINITIONS OF MEASURES SHOWN IN PART 2

These measures are defined the same as those in part 1 except that they are based on quarter-to-quarter percent changes. For example, CI is the average quarter-to-quarter percent change (without regard to sign) in the seasonally adjusted series.

In deriving "QCD" (quarters for cyclical dominance), average percent changes are computed for spans of from one to four quarters for the irregular component and the short-term trend, QCD is the shortest span of guarters for

which the average percent change (without regard to sign) in the short-term trend is greater than that in the irregular component. All QCD's greater than "3" are shown as "4". The "Average Duration of Run" (ADR) measures are also expressed in quarters.

As in part 1, measures for series identified with an asterisk (*) are computed by an additive method. This method is the same as that used for the monthly series except for the use of quarterly data rather than monthly.

Appendix C. HISTORICAL DATA

This appendix provides historical data (back to 1945 if available) for selected <u>Defense Indicators</u> series. Data are shown for series which (a) have recently been added to the report, (b) have recently been revised, or (c) have not been shown here for a long time. By keeping these tables, the user can acquire a complete set of historical data. Each time a series is included in this appendix, it is footnoted to indicate the extent of any revisions since it was last shown. See the "Alphabetical Index—Series Finding Guide" for the latest issue in which historical data

were published for each series. Current figures are shown in the basic data tables each month and may be used to update these historical tables.

Official source agency annual figures are shown if available. Such figures may differ slightly from those computed from the monthly or quarterly data appearing in the tables. When both seasonally adjusted and unadjusted data are shown for a series, annual figures are included only for the unadjusted data. Quarterly and annual data are not included for moving averages.

V						Mon	thly				14		3 10	Quar	terly		1.55
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	10	ΠQ	III Q	IVQ	Annual
	617.	Defense	DEPARTME	NT GROSS	OBLIGATI	ONS INCU	RRED, TOT	AL, NOT	SEASONAL	LY ADJUST	ED			70	PAL FOR P	RIOD	1 113
949 950 951 952 953 955 956 957 959 960	964 6,921 5,439 3,827 1,950 2,068 3,130 3,061 3,483 3,329 3,017	942 4,538 4,112 3,613 2,745 2,045 2,691 3,288 3,108 3,340 3,222	925 5,019 4,589 4,091 2,186 2,879 4,891 3,833 4,864 4,512 4,061	1,280 3,417 3,892 4,173 2,770 3,010 3,783 3,694 4,065 3,630 3,321	1,634 5,001 5,352 2,147 2,731 2,012 3,080 2,720 3,889 3,333 3,382	2,414 8,219 8,252 2,927 4,983 4,202 7,107 4,860 6,998 6,345 6,197	822 3,248 6,270 7,312 2,195 2,437 2,000 2,888 2,532 3,208 3,160 4,437	914 2,702 3,319 5,233 2,134 2,244 953 3,984 2,630 2,998 2,933 3,385	1,179 2,610 3,558 4,208 2,156 3,336 3,406 3,337 3,104 3,636 3,971 3,962	901 3,557 4,654 2,925 2,225 3,474 2,398 3,110 2,878 4,635 3,859 3,374	1,121 2,111 9,690 2,658 2,148 2,520 2,471 3,163 3,346 3,282 3,394 3,856	1,145 2,860 3,280 5,072 1,630 2,699 4,545 4,400 4,268 4,486 3,511 3,884	2,831 16,478 14,140 11,531 6,887 6,992 10,712 10,182 11,455 11,181 10,300	5,328 16,637 17,496 9,247 10,484 9,224 13,970 11,274 14,952 13,308 12,900	2,915 8,560 13,147 16,753 6,485 8,017 6,359 10,209 8,266 9,842 10,064 11,784	3,167 8,528 17,624 10,655 6,003 8,693 9,414 10,673 10,492 12,403 10,764 11,114	25,247 63,886 59,044 33,266 34,081 31,989 45,564 40,214 48,652 45,317 46,098
961 962 963 964 965 966 970 971 972 973 973 974	3,408 4,164 4,360 4,093 4,090 6,056 6,445 7,264 6,757 6,935 7,772 7,414 8,113 8,252 8,652	3,735 3,726 4,779 3,466 5,451 6,092 5,402 6,498 5,402 6,591 6,591 6,904 7,206	4,246 4,805 4,131 4,554 6,354 6,089 6,027 6,163 6,716 6,716 6,613 7,241	3,389 4,355 3,935 4,379 4,534 6,191 6,780 6,228 6,371 6,581 6,455 6,342 7,375 7,403 8,677	3,451 3,773 4,162 4,399 4,246 5,055 7,146 6,870 6,045 5,764 5,764 5,813 5,997 6,104 6,796 6,825	6,138 6,291 6,891 6,552 6,792 10,314 10,555 10,677 9,194 8,605 9,327 10,110 11,027 11,319	3,609 4,861 4,883 5,361 4,927 5,815 5,991 7,238 6,901 7,099 8,279 8,279 8,180 9,285 9,903 9,593	4,697 4,084 4,278 3,959 4,892 6,896 6,791 6,592 6,146 6,592 6,146 7,810 7,505 8,874 7,427	4,818 3,920 4,180 4,429 5,326 6,535 8,016 8,971 7,309 7,360 6,374 6,899 7,790 9,840	4,200 4,912 5,507 4,048 5,365 5,905 7,335 7,540 7,337 6,638 7,497 7,178 8,074 7,965 9,045 12,635	3,873 4,633 3,848 3,930 4,599 5,755 6,238 6,027 6,228 6,153 6,489 6,917 7,600 6,976 9,620	4,831 4,091 4,158 4,970 5,565 5,936 6,271 6,440 6,554 7,137 6,066 6,041 7,260 7,156 9,903	11,389 12,697 12,485 13,003 12,060 15,129 17,861 18,626 19,211 18,186 20,759 20,821 21,552 22,682 24,099	12,978 14,419 14,996 15,330 15,572 21,612 23,892 24,327 21,467 21,769 20,972 21,666 23,589 25,226 6,821	13,124 12,865 13,341 13,749 15,145 19,246 20,798 24,030 20,802 20,605 21,407 22,478 21,974 25,949 27,420 26,860	12,904 13,636 13,513 12,948 15,529 17,208 19,298 20,049 19,804 19,420 20,787 19,733 21,032 22,825 23,177 32,158	50,395 53,617 54,335 55,036 58,300 73,19 81,84 87,93 81,28 79,98 82,76 84,66 85,49: 93,91 98,50 109,936
	617.	DEFENSE	DEPARTME	NT GROSS	OBLIGATI ILLIONS	OF DOLLA	RRED, TOT	AL, SEAS	SONALLY A	DJUSTED				TO	TAL FOR P	ERIOD	
949 950 951 952 953 954 955 956 957 958 959	977 7,048 5,601 4,003 2,095 2,295 3,585 3,585 3,522 3,834 3,792 3,447	1,043 4,987 4,484 3,997 3,074 2,342 3,125 3,877 3,664 3,887 3,554	960 5,158 4,544 3,889 1,966 2,506 4,131 3,192 4,252 3,929 3,592	1,438 3,698 3,980 4,059 2,539 2,704 3,424 3,521 3,985 3,735 3,483	1,621 5,011 5,501 2,272 3,024 2,271 3,528 3,094 4,480 3,842 3,901	1,609 5,458 5,362 1,841 3,070 2,533 4,225 2,862 4,271 3,870 3,882	619 2,479 4,933 6,191 2,040 2,563 2,334 3,592 3,177 3,931 3,552 4,973	995 2,905 3,573 5,782 2,409 2,597 1,133 4,882 3,259 3,634 3,658 3,897	1,286 2,834 3,851 4,520 2,289 3,493 3,552 3,502 3,267 3,719 3,968 3,869	989 3,935 5,114 3,190 2,459 3,890 2,703 3,479 3,216 4,910 4,118 3,620	1,268 2,410 11,241 3,091 2,545 2,944 2,857 3,566 3,718 3,800 3,709 4,042	1,435 3,593 4,136 6,208 1,850 2,788 4,320 3,986 3,790 3,898 3,208 3,689	2,980 17,193 14,629 11,889 7,135 7,143 10,841 10,591 11,750 11,608 10,593	4,668 14,167 14,843 8,172 8,633 7,508 11,177 9,477 12,736 11,447 11,266	2,900 8,218 12,357 16,493 6,738 8,653 7,019 11,976 9,703 11,284 11,178 12,739	3,692 9,938 20,491 12,489 6,854 9,622 9,880 11,031 10,724 12,608 11,035 11,351	
1961 1962 1963 1964 1965 1966 1968 1971 1971 1972 1975 1975	3,857 4,473 4,731 4,242 4,421 5,489 6,589 6,589 6,906 6,796 6,796 7,604 6,827 7,527 7,341 8,132	4,332 4,349 4,485 5,783 4,276 5,328 6,659 7,212 7,097 6,489 7,261 6,951 7,283 7,398 7,467 7,962	3,752 4,616 4,245 4,245 6,495 6,495 6,866 6,866 6,753 7,365 7,365 8,672	3,840 4,764 4,132 4,563 4,575 6,392 6,746 7,013 6,752 6,683 6,752 7,267 6,865 7,762 7,933 9,134	3,803 4,199 4,390 4,813 4,720 5,442 7,439 7,067 6,632 6,556 6,990 6,825 7,275 7,187 8,199 8,772	3,853 4,099 4,856 4,349 4,446 6,838 7,432 6,491 6,389 6,866 6,992 8,166 8,583 8,491	3,924 4,925 4,639 5,010 4,888 5,963 6,427 7,317 6,793 7,462 7,173 7,312 7,983 8,614 8,116	5,335 4,312 4,556 4,274 5,017 6,687 7,638 6,680 6,357 6,763 7,613 6,932 9,406 6,833	4,785 4,135 4,265 4,308 5,110 5,958 7,267 8,244 6,583 6,249 6,583 6,249 7,907 8,179 7,907 10,424	4,303 4,787 5,442 3,984 5,345 6,037 7,256 6,368 7,303 7,015 7,671 7,681 8,387 12,255	4,096 4,866 4,164 4,487 5,225 6,136 6,667 7,183 7,150 7,033 6,683 7,109 7,315 8,211 8,069 10,355	4,780 4,249 4,277 5,088 5,599 6,328 6,815 7,011 6,838 6,942 7,432 6,708 6,850 8,116 7,925 11,003	11,941 13,438 13,590 14,270 13,296 16,995 19,743 20,541 21,433 20,161 20,810 21,453 21,472 22,410 23,485 24,936	11,496 13,062 13,785 13,725 13,741 18,655 21,023 21,561 19,512 19,730 20,131 20,958 21,132 23,115 24,715 26,397	14,044 13,372 13,460 13,592 15,015 18,608 20,319 23,199 20,057 19,733 20,474 21,610 21,034 24,441 25,927 25,373	13,179 13,902 13,883 13,559 16,169 18,501 20,740 21,450 20,818 20,343 21,448 21,836 24,008 24,381 33,613	Sales less

Appendix C. HISTORICAL DATA—Continued

	- 101					Mor	nthly					menda	0 60	Qua	erly	mortes	
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	10	11 0	III Q	IV Q	Annua
	617.	DEFENSE C	EPARTMENT SEASON	GROSS C		NS INCUR	RED, TOTA	L, 6-MON DOLLARS)	TH MOVIN	3 AVERAGE	OF	Investigation of the second			er meda	ilipayo .	an jeja
1949	1,112	1,187	1,246	1,275	1,525	1,835	2,148	2,564	2,695	1,099	1,158	1,166		TOTAL BE	0110	NO. 1 TO A	
1951	4,522 5,853	4,482 5,664	4,916	5,227	4,874	4,638 5,227	5,223	4,657 5,091	5,695 4,689	5,475 4,830	5,586	4,134 5,738 4,168					
1953	4,063 2,331 2,794	4,208	2,425	3,343	3,016	2,752	2,485	3,106	3,093	2,265 3,046	3,001	2,385					
955	3,454	2,597 3,574	3,686	3,670	3,671	3,964	2,421 3,859	3,868	3,874	3,834	3,025	3,357	10 10			765	
1957	3,604	3,611	3,532 4,001	3,345	3,287 4,097	3,184 4,092	3,197 4,003 3,771	3,146 4,158	3,250 4,044	3,405 2,982 3,702	3,514	3,582 4,001				-	1
1959 1960	4,036 3,605	3,840	3,847	3,843	3,803	3,764	4,001	3,835 4,024	3,813 4,047	4,015	3,685	3,667	(SATM)				
1961	3,882	3,919	3,879 4,530	3,906	3,917	4,085	4,257	4,334	4,383	4,537	4,628	4,464				- 11	
1963	4,582	4,474	4,395	4,496	4,481	4,492	4,474	4,691	4,654	4,557	4,491	4,696	4			Lifte	
1965	4,476	4,574 5,702	4,613 5,738	4,506 5,942	4,584 6,021	6,247	6,211	6,152	5,005	5,197	5,298	5,349					
1967	6,374	6,492	6,710	6,794	6,767	6,762	6,890 7,460	6,976	6,847	6,843	6,887	6,985 7,361	1 Lite				
1969	7,131	7,014	6,922	6.808	6,726	6,656	6,595	6,640	6,727	6,812	6,815	6,784	- 100			114	1 100
1971	6,830	6,805	6,916	6,648	6,630	6,851	6,767	6.864	6,813	6,987	7,010	7.042	17 111				11000
1972	7,150	7,139	7,163	7,068	6,997 7,181	7,107	7,095	7,053 7,162	7,169	7,145	7,181	6,961 7,259					
1974	7,374	7,390	7,368	8,033	7,664 8,246	7,810 8,569	8,440	7,912 8,516	8,083	8,075	7,968	7,832 8,064	1 7/6				
1976	8,220	8,344	8,461	8,556	8,553	8,365	8,628	9,148	9,412	9,831	10,120	10,641	6 10			1113	
6	19. DEFE	NSE DEPA	RTMENT GR	OSS OBLIG	CATIONS O	NCURRED,	OPERATI S)	ONS, NOT	SEASONAL	LY ADJUS	TED			TOT	AL FOR PI	RIOD	
1959	1,877	1,768	1,946	2,031	1,784	2,201	2,180 2,184	1,904 2,026	2,040 2,021	1,957	1,845	1,919	5,591	6,016	6,124 6,231	5,721 5,826	23,66
1961	1,996	1,824	2,003	2,013	1,905	2,268	2,213	2,122	2,214	2,275	2,096	2,164 2,071	5,823 6,388	6,186	6,549	6,535	25,09 26,48
1962	2,183	1,966	2,173	2,237	2,143	2,461 2,376	2,464	2,324	2,136	2,151	2,174	2,205	6,251	6,688	7,060	6,838	26,83
1964	2,362	2,136	2,242 2,382	2,361 2,463	2,146	2,694	2,838	2,391	2,373	2,474	2,263	2,334	6,740	7,201	7,602 8,303	8,247	28,61
1966	3,495	3,226	2,961 3,508	3,039	2,864	3,701	3,480	3,622	3,325	3,262	3,236	3,204	8,327	9,604	10,427	9,702	38,06
1968	3,798 4,537	3,435	3,487	4,047	3,707	4,976	4,371	4,021	3,956	4,340	3,548	3,628	10,720	12,482	12,641	11,516	47,35
1970	4,210	3,628	3,828	4,372	4,010	4,848	4,590	4,053	4,016	4,327	3,716	3,804	11,666 11,811 12,783	13,230	12,659	11,847	50,08
1972	4,623	3,990	4,170	4,437	4,084	5,110	4,933 5,334	4,559	4,345	5,024	4,193	4,027	12,783	13,631	13,837	12,867	53,11
1974	4,991 5,471	4,187	4,377	4,982 5,424	4,434	6,170	5,901	5,224	4,771 5,203	5,394	4,471	4,826	13,555	15,586	15,896	14,691	59,72
1976	6,010	4,745	4,995	5,946	4,828	5,949	6,362	5,055	6,120	7,447	5,561	5,341	15,750	16,723	17,537	18,349	68,35
	619.	DEFENSE	DEPARTMEN			ONS INCUI		RATIONS,	SEASONAL	LY ADJUS	TED	10.1		TO	TAL FOR P	ERIOD	19.0
1959	1,913	1,907	1,973	1,999	1,928	1,992	1,947	1,953	1,986	1,907	1,957	1,935	5,793	5,919	5,886 5,969	5,799 5,921	177.1
1961	2,020	2,029	2,035	2,026	2,024	2,041	2,050	2,078	2,194	2,220	2,173	2,249	6,084	6,091	6,322	6,642	31
1962	2,164	2,258	2,249 2,157	2,246	2,266	2,231 2,187	2,235	2,272	2,175	2,058	2,181	2,190	6,671	6,743	6,682	6,429	
1964	2,320	2,328	2,342	2,340	2,333	2,396	2,507	2,414	2,338 2,700 3,299	2,404 2,749 3,270	2,401	2,390	7,299	7,069	7,259	8,389	
1966	3,506	2,857	3,026	2,436 3,039 3,743	3,101	2,493 3,241 3,691	3,168	3,502	3,696	3,270	3,321	3,351	8,765	9,381 11,190 12,174	9,969	9,942	
1968	3,745	3,629 3,737 4,024	3,657 4,080	3,776	3,927 4,060	4,471	3,413 3,884 4,269	3,938	4,318	3,721 4,184 4,123	3,497 3,707 4,142	3,822	11,139	12,174	12,140	11,713	19-
1970	4,160	4,146	4,136	4,290	4,241	4,160	4,073	4,063	4,013	4,089	4,017	4,006	12,442	12,691	12,149	12,112	
1972	4,572	4,338	4,375	4,361	4,323	4,396	4,410	4,456	4,516	4,419	4,488	4,456	13,285	13,080	13,382	13,363	
1973	4,494	4,656	4,427	4,445	4,393	5,466	5,110	5,203	5.040	4.999	4,652	5,334	14,171	14,932	13,660	14,011	
1975	5,148	5,220	5,251	5,209	5,121	5,560	5,624	5,327	5,442 6,335	5,660 7,012	5,334 6,145	5,373	15,619	15,890	16,393	16,367	1
1977	1			1			1			1							1

Appendix C. HISTORICAL DATA—Continued

		y.	grant!		,]	Mor	nthly					,		Qua	rterly		
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	10	ΠQ	III Q	IVQ	Annual
6	21. DEFE	NSE DEPAI	RTMENT GR	OSS OBLIG	ATIONS I	NCURRED,	PROCURES	MENT, NO	SEASONA	LLY ADJUS	STED ¹	THE PARTY OF	V III II	TOT	AL FOR PE	RIOD	
1953 1954 1955 1956 1957 1958 1959	98 909 815 1,180 976 696	632 425 571 1,073 992 1,160 996	272 861 2,642 1,693 2,512 2,058 1,513	228 716 826 1,001 1,213 1,065 758	583 254 836 582 1,495 1,029 1,034	1,960 917 3,713 1,575 3,388 3,101 2,789	290 560 100 687 289 612 560 1,413	96 291 -1,025 1,840 633 693 685 975	187 1,335 1,458 1,205 1,230 1,110 1,319 1,216	140 1,467 165 846 638 1,895 1,268 841	256 555 348 1,032 1,234 1,097 1,007 1,408	-244 2,171 2,348 2,141 2,023 2,024 1,079 1,296	827 1,384 4,122 3,581 4,684 4,194 3,205	2,771 1,887 5,375 3,158 6,096 5,195 4,581	573 2,186 533 3,732 2,152 2,415 2,564 3,604	152 4,193 2,861 4,019 3,895 5,016 3,354 3,545	9,977 6,665 17,248 12,786 18,211 15,307 14,935
1961 1962 1963 1964 1965 1966 1967 1970 1971 1973 1974 1975 1976	978 1,438 1,332 919 834 1,259 1,738 1,784 1,561 1,946 2,534 1,815 2,337 1,895 1,697	1,387 1,100 1,125 1,771 588 1,184 1,451 1,865 1,567 1,165 1,672 1,667 1,785 1,677 1,569	1,713 1,688 1,352 1,056 1,364 1,924 2,003 1,480 1,245 1,470 1,435 1,435 1,4994 2,093	846 1,485 1,035 1,208 1,369 2,198 1,801 2,239 1,428 1,331 1,425 1,278 1,028 1,546 1,147 1,688	848 819 1,103 1,585 1,315 1,520 2,485 2,308 1,264 1,232 1,103 993 1,171 894 1,147 1,155	2,729 2,570 2,683 2,182 2,1256 4,820 4,623 3,087 3,465 2,975 2,871 2,975 2,871 2,693 3,218	849 1,468 1,104 1,515 986 1,297 1,045 1,459 851 1,071 1,518 1,310 1,019 1,332 1,510 1,812	1,772 1,081 1,338 639 1,516 2,226 1,894 2,751 1,369 1,361 1,767 1,393 1,416 2,508 1,458	1,877 1,007 1,183 1,614 1,614 3,215 3,535 2,570 2,332 1,665 1,582 1,168 1,919 1,506 2,152	1,208 1,610 1,950 870 1,733 1,815 2,699 2,275 2,078 1,639 2,183 1,757 2,105 1,709 1,733 2,312	1,236 1,685 1,044 1,045 1,168 1,520 1,717 1,923 1,516 1,716 1,756 1,714 2,281 1,320 2,497	1,870 1,200 1,214 1,745 1,867 1,941 1,876 1,879 2,008 2,000 2,209 1,456 1,321 1,646 1,428 2,855	4,078 4,226 3,809 3,746 2,786 4,374 5,113 5,652 4,828 4,153 4,863 4,863 5,035 5,458 5,454	4,423 4,874 4,821 4,925 4,940 8,538 8,784 6,028 5,032 5,032 5,032 4,987 6,061	4,498 3,556 3,625 4,116 5,368 6,154 7,745 4,730 4,566 4,667 3,580 4,667 5,524 5,422	4,314 4,495 4,208 3,660 4,768 5,276 6,077 5,602 5,349 5,936 4,769 5,140 5,636 4,481 7,664	17,313 17,151 16,463 15,616 26,508 28,258 20,939 20,096 20,375 20,345 18,825 20,603 20,450 24,603
	621.	DEFENSE 1	DEPARTMEN	T GROSS C	BLIGATIO	ONS INCUR	RED, PRO	CUREMENT	, SEASONA	LLY ADJU	STED ²			TOT	AL FOR PE	RIOD	
1953 1954 1955 1956 1957 1958 1959	34 320 1,278 1,140 1,637 1,330 937	740 625 781 1,407 1,232 1,362 1,104	14 514 1,739 1,117 1,669 1,371 1,020	386 861 1,118 1,347 1,619 1,398 983	758 405 1,158 802 2,042 1,381 1,488	1,067 305 1,767 744 1,580 1,425 1,397	470 1,064 474 1,735 707 1,404 1,202 2,204	172 490 -872 2,424 827 891 870 1,256	200 1,370 1,489 1,250 1,265 1,121 1,319 1,256	206 1,651 324 1,051 786 2,291 1,517 945	304 680 466 1,196 1,418 1,238 1,124 1,468	-518 1,560 1,531 1,291 1,327 1,545 929 1,096	788 1,459 3,798 3,664 4,538 4,063 3,061	2,211 1,571 4,043 2,893 5,241 4,204 3,868	842 2,924 1,091 5,409 2,799 3,416 3,391 4,716	-8 3,891 2,321 3,538 3,531 5,074 3,570 3,509	
1961 1962 1963 1964 1965 1966 1967 1970 1971 1972 1973 1974 1975 1975	1,277 1,758 1,586 1,075 1,005 1,639 2,296 2,360 2,088 1,807 1,871 2,142 1,489 1,937 1,603 1,453	1,555 1,228 1,206 1,843 700 1,736 2,140 2,865 2,075 1,839 1,720 1,675 1,675 1,675	1,230 1,410 1,366 1,237 1,355 1,903 1,985 1,701 1,669 1,486 1,715 1,585 1,425 1,960 2,014	1,047 1,791 1,215 1,389 1,444 2,109 1,754 2,161 1,638 1,559 1,788 1,642 1,324 1,991 1,448 2,096	1,220 1,039 1,358 1,910 1,402 1,620 2,299 1,528 1,486 1,554 1,493 1,898 1,813 1,828	1,390 1,311 1,363 1,079 1,254 2,415 2,290 2,077 1,550 1,771 1,389 1,725 1,712 1,494 1,644 1,983	1,181 1,657 1,132 1,494 1,128 1,753 1,633 2,323 1,447 1,825 2,314 1,834 1,667 1,827 2,157	2,278 1,395 1,700 803 1,741 2,251 1,925 2,804 1,476 1,332 1,662 2,017 2,017 2,1614 2,940 1,747	1,933 1,040 1,207 1,141 1,732 1,866 2,958 3,234 1,752 1,542 1,543 1,164 1,164 1,953 1,515 2,147	1,354 1,675 2,010 889 1,733 1,931 2,735 2,298 1,867 1,459 1,915 1,570 1,911 1,553 1,605 2,157	1,286 1,787 1,094 1,212 1,723 2,520 1,820 1,851 1,654 1,554 1,546 2,136 1,206 2,258	1,773 1,205 1,273 1,747 1,882 1,937 1,846 1,959 2,103 1,803 1,958 1,437 1,383 1,807 1,612 3,270	4,062 4,396 4,158 4,155 3,060 5,279 6,339 7,210 5,864 4,999 5,196 5,580 4,883 5,037 5,138 5,139	3,657 4,141 3,936 4,378 4,100 6,144 6,524 4,716 4,816 4,860 4,860 4,883 4,905 5,907	5,392 4,092 4,039 3,438 4,601 5,870 6,516 8,361 4,675 4,699 5,389 5,376 4,074 5,282 6,051	4,413 4,667 4,377 3,725 4,827 5,551 6,777 5,790 5,113 5,497 4,561 4,940 5,496 4,423 7,685	
	21. DEFE	NSE DEPA	RTMENT GR SEASON	OSS OBLICALLY ADJ	SATIONS S	NCURRED,	PROCURE LIONS OF	MENT, 6- DOLLARS	MONTH MOV	ING AVER	AGE OF		7 111				
1953 1954 1955 1956 1957 1958 1959	130 892 1,020 1,200 1,345 1,523 1,105	160 760 1,152 1,250 1,484 1,374 1,016	236 714 1,268 1,184 1,588 1,398 1,077	500 505 1,307 1,093 1,630 1,378 1,155	672 531 1,383 1,021 1,591 1,357 1,366	630 281 1,657 924 1,534 1,275 1,391	856 444 1,575 949 1,443 1,266 1,431	1,067 354 1,564 855 1,555 1,286 1,424	1,054 364 1,571 958 1,421 1,243 1,421	139 1,136 569 1,491 1,055 1,415 1,160 1,371	1,012 703 1,392 1,210 1,403 1,116 1,216	161 1,034 978 1,223 1,278 1,481 1,155 1,266				DOM: 1	
1961 1962 1963 1964 1965 1967 1968 1970 1971 1972 1973 1974 1975 1976	1,262 1,468 1,471 1,422 1,131 1,684 1,988 2,327 2,107 1,798 1,718 1,846 1,574 1,663 1,772 1,594	1,279 1,541 1,394 1,223 1,747 1,929 1,997 1,747 1,801 1,533 1,676	1,238 1,500 1,323 1,455 1,276 1,815 2,085 2,253 1,832 1,691 1,779 1,578 1,679 1,779	1,287 1,423 1,423 1,423 1,904 2,129 1,764 1,636 1,740 1,623 1,674 1,841	1,271 1,406 1,273 1,492 1,214 1,923 2,033 2,033 2,035 1,657 1,639 1,692 1,692 1,599 1,711 1,958	1,391 1,434 1,356 1,319 1,387 2,009 1,998 2,275 1,557 1,607 1,741 1,559 1,559 1,939 1,971	1,508 1,372 1,329 1,450 2,002 2,173 2,483 1,565 1,586 1,687 1,706 1,489 1,686 1,865 1,993	1,559 1,353 1,462 1,219 1,498 1,973 2,337 2,506 1,603 1,569 1,708 1,694 1,694 1,613 1,891 2,003	1,570 1,478 1,418 1,083 1,467 1,990 2,286 2,543 1,652 1,630 1,719 1,736 1,736 1,736 1,736	1,634 1,460 1,403 1,194 1,571 1,910 2,212 2,523 1,744 1,635 1,814 1,656 1,502 1,788 1,784 2,289	1,730 1,448 1,393 1,112 2,001 2,333 2,484 1,804 1,643 1,786 1,595 1,602 1,772 1,772 2,237	1,555 1,417 1,417 1,095 1,656 1,982 2,490 2,362 1,812 1,728 1,728 1,561 1,619 1,511 2,316	Market Williams			There steels	

Appendix C. HISTORICAL DATA—Continued

Year	Monthly																
	Jan,	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	10	ΠQ	III Q	IV Q	Annua
623. GROS	S OBLIGA	rions in	CURRED OU	TSIDE THE	E FEDERAL	GOVERNM OF DOLLAR	ENT FOR	NATIONAL	DEPENSE,	SEASONA	LLY ADJU	STED	125 30	TO	TAL FOR P	ERIOD	
1963 1964 1965 1966 1968 1969 1970 1971 1972 1974 1975 1975	4,616 4,420 5,568 6,659 7,187 7,287 6,331 8,256 6,496 8,264 8,069 9,476	6,094 4,114 5,914 6,459 7,294 6,790 7,029 7,029 7,168 8,706 7,874 8,271 9,168	4,680 4,430 6,260 6,905 6,781 7,213 6,788 7,294 7,421 7,819 8,590 10,511	4,226 4,613 5,903 6,738 7,009 6,686 6,993 7,038 7,401 6,986	4,606 4,741 5,989 7,318 6,857 6,862 6,761 6,839 7,196 7,098 7,647 12,426 9,137	4,585 4,429 6,625 6,742 7,385 6,790 6,569 7,037 6,877 8,534 10,487 9,383	3,801 4,493 5,156 6,269 6,733 7,448 7,203 6,774 7,071 7,335 7,773 8,526 9,397 8,238	4,458 4,505 4,985 6,603 7,523 7,138 6,907 7,867 7,867 7,441 9,202 9,321 7,307	4,703 4,523 4,978 6,248 7,259 8,959 6,837 6,203 6,734 6,707 7,588 9,326 8,092 10,597	4,809 4,379 5,275 6,303 7,134 7,807 6,790 5,717 7,130 6,923 8,953 7,830 12,679	3,975 4,612 5,259 6,484 6,439 7,305 7,287 8,051 7,331 8,416 7,417 8,963 9,697 9,698	4,205 4,383 5,938 6,313 6,835 7,086 6,807 7,153 7,213 6,977 6,396 8,139 6,537 11,684	15,390 12,964 17,742 19,834 20,751 21,262 21,290 20,148 22,718 22,623 23,957 24,930 29,155	13,417 13,783 18,517 20,798 21,251 20,338 20,576 21,634 20,961 24,451 28,248 28,542	12,962 13,521 15,119 19,120 20,538 23,930 21,178 19,769 30,712 31,909 42,802 27,054 26,810 26,142	12,989 13,374 16,472 19,100 20,408 22,198 20,884 20,921 21,674 22,316 22,748 25,605 24,064 34,061	55,70 58,33 74,47 81,57 88,13 83,66 82,30 83,11 88,57 89,13 101,06 104,05 117,90
623. GROS	S OBLIGA	TIONS IN	CURRED OU OF SEA	TSIDE THI SONALLY	E FEDERAL ADJUSTED	GOVERNM DATA (ENT FOR	NATIONAL OF DOLL	DEFENSE,	6-MONTH	MOVING	AVERAGE				* 1111	
1963 1964 1965 1966 1968 1969 1971 1972 1974 1975 1976	4,730 4,390 5,702 6,860 7,243 6,845 7,399 7,784 8,422 8,870	4,633 4,429 5,807 6,562 6,839 7,057 7,065 7,444 7,673 7,894 9,235	4,738 4,450 5,929 6,701 6,909 6,983 6,983 6,975 6,863 7,421 7,712 8,472 9,142	4,801 4,458 6,043 6,772 7,000 6,933 6,936 6,787 7,392 8,068 8,863 9,616	4,781 4,581 6,160 6,752 7,132 6,936 6,850 6,911 7,239 7,477 8,112 9,084 9,410	4,516 4,726 6,275 6,766 7,188 6,910 6,850 6,890 7,355 7,266 8,333 9,259 9,100	4,490 4,817 6,273 6,889 7,530 6,919 6,682 6,881 7,257 8,584 9,176 9,114	4,515 4,927 6,940 6,955 7,663 6,937 7,177 8,623 9,592 9,557	4,516 5,014 6,422 6,809 7,738 7,008 6,684 6,979 7,381 7,672 8,842 9,137 9,650	4,325 4,483 5,265 6,370 6,824 7,688 7,010 6,762 7,064 7,371 7,592 8,776 8,479 10,034	4,461 4,470 5,334 6,468 6,812 7,645 7,024 6,708 7,262 7,231 7,674 8,700 8,492 10,290	4,734 4,405 5,489 6,444 6,919 7,606 6,767 7,371 7,746 8,545 8,467 10,958					
	683. BUDGET OUTLAYS FOR THE NATIONAL DEFENSE FUNCTION, SEASONALLY ADJUSTED (MILLIONS OF DOLLARS)										TOTAL FOR PERIOD						
1953 1954 1955 1956 1957 1959	3,715 3,917 3,446 3,168 3,761 3,707 3,817 3,807	3,734 3,798 3,234 3,271 3,762 3,724 3,808 3,769	3,820 3,732 3,603 3,222 3,797 3,722 3,838 3,733	3,842 3,612 3,433 3,349 3,882 3,620 3,849 3,729	3,921 3,572 3,445 3,385 3,712 3,694 3,836 3,744	3,418 3,929 3,482 3,895 3,645 3,871 3,874 3,437	3,909 3,353 3,472 3,250 3,727 3,885 3,914 3,888	4,042 3,351 3,444 3,418 3,812 3,688 3,862 3,906	4,071 3,249 3,483 3,393 3,727 3,908 3,835 3,926	4,037 3,327 3,348 3,573 3,407 3,986 3,863 3,846	3,995 3,439 3,215 3,635 3,624 3,927 3,860 3,909	3,909 3,470 3,279 3,597 3,579 3,952 3,901 3,984	11,269 11,447 10,283 9,661 11,340 11,153 11,463 11,309	11,181 11,113 10,360 10,629 11,239 11,185 11,559 10,909	12,022 9,953 10,399 10,061 11,266 12,481 11,611 11,720	11,941 10,236 9,842 10,805 10,610 11,865 11,624 11,739	46,41 42,74 40,88 41,15 44,45 45,68 46,25 45,67
1961 1962 1963 1965 1965 1966 1967 1970 1971 1973 1974 1975 1976	3,893 4,380 4,515 4,291 4,298 4,896 6,372 6,701 6,609 6,449 6,534 6,569 7,039 6,874	4,013 4,353 4,366 4,591 4,807 6,555 6,648 6,648 6,648 6,648 6,635 7,896 6,126	3,994 4,355 4,456 4,185 4,185 4,132 5,057 6,224 6,157 6,803 6,452 6,582 6,582 6,582 6,579 7,385 7,497	3,975 4,444 4,441 4,4443 5,000 6,5816 6,5816 6,5816 6,912 6,5007 7,297 7,784	4,051 4,577 4,306 4,850 5,076 6,159 7,095 6,838 6,705 6,684 6,684 6,684 6,687 4,788 7,334	3,938 4,511 4,311 4,985 4,258 5,424 5,211 6,863 6,833 5,796 6,666 7,574 6,666 6,666 6,795	3,930 4,397 4,525 3,798 4,229 5,671 7,508 7,410 7,410 7,410 7,410 5,849 8,367 8,717	3,949 4,501 4,027 5,506 6,6130 6,6123 6,6123 6,776 7,409	4,020 4,396 4,457 4,208 4,465 5,805 6,626 6,811 6,674 6,475 5,667 6,754 7,140 7,896	4,080 4,479 4,506 4,145 4,594 5,728 6,649 6,719 6,931 6,310 6,361 6,472 6,542 7,467 7,971 7,743	4,238 4,511 4,215 4,252 4,642 5,681 6,611 7,075 7,066 6,306 6,278 6,499 6,735 7,727 7,896 7,360	4,235 4,387 4,437 4,200 4,804 5,710 6,096 7,133 6,818 6,535 6,441 6,320 6,416 7,803 7,530	11,900 13,088 13,337 13,067 12,444 14,760 16,777 19,784 19,709 18,913 19,473 19,658 19,983 22,320 20,497	11,964 13,532 13,068 14,279 13,041 15,500 17,959 20,774 20,355 18,992 18,964 21,170 19,330 20,414 21,734 21,913	11,899 13,156 13,483 12,033 13,186 16,982 20,749 19,598 20,570 20,497 17,777 17,777 19,379 21,357 24,503 24,022	12,553 13,377 13,158 12,597 14,040 17,119 19,356 20,927 20,815 19,151 19,080 19,291 19,693 23,003 23,970 22,633	48,31 53,15 53,04 51,97 52,71 64,36 76,36 78,34 74,73 77,71 78,06 84,75 92,52 89,06
683. BUDG	ET OUTLA	YS FOR T	HE NATION	AL DEFEN	SE PUNCT	ION, 6-MC	NTH MOVI	NG AVERA	GE OF SE	SONALLY	ADJUSTED	DATA			- 400		100
1953 1954 1955 1956 1957 1958 1959	3,898 3,420 3,251 3,691 3,627 3,888 3,822	3,827 3,438 3,251 3,742 3,663 3,865 3,800	3,757 3,439 3,279 3,755 3,674 3,850 3,780	3,742 3,760 3,441 3,382 3,763 3,723 3,837 3,703	3,774 3,666 3,445 3,395 3,758 3,753 3,853 3,717	3,825 3,592 3,480 3,420 3,763 3,747 3,862 3,739	3,867 3,511 3,460 3,448 3,751 3,778 3,862 3,772	3,900 3,464 3,446 3,486 3,672 3,839 3,864 3,791	3,912 3,441 3,407 3,527 3,657 3,878 3,868 3,819	3,994 3,365 3,374 3,478 3,646 3,891 3,873 3,910	3,995 3,380 3,323 3,563 3,643 3,880 3,855 3,911	3,955 3,361 3,294 3,624 3,628 3,900 3,839 3,929					
1961 1962 1963 1964 1965 1965 1967 1968 1970 1971 1973 1974 1975 1976	3,940 4,274 6,452 4,371 4,174 4,800 5,983 6,753 6,898 6,754 6,492 6,613 7,556 7,411	3,961 4,334 4,448 4,361 4,183 4,868 6,126 6,551 6,892 6,681 6,551 6,517 6,496 6,617 7,526 7,380	3,985 4,391 4,414 4,238 4,940 6,632 6,852 6,852 6,852 6,440 7,586	3,977 4,437 4,401 4,558 4,248 5,043 6,760 6,802 6,450 6,313 6,774 6,498 6,733 7,342 7,068	3,984 4,480 4,403 4,4761 5,173 6,312 6,834 6,838 6,295 6,384 6,768 7,376	3,973 4,441 4,425 4,382 6,384 6,684 6,578 6,153 6,644 6,419 6,831 7,589	3,977 4,448 4,425 4,385 4,371 5,414 6,451 6,729 6,821 6,581 6,123 6,492 4,451 6,962 7,706 7,656	3,995 4,454 4,434 4,436 5,535 6,461 6,713 6,862 6,551 6,185 6,458 7,112 7,649	4,026 4,443 4,419 4,236 6,537 6,709 6,485 6,200 6,354 7,254 7,853	4,075 4,422 4,440 4,105 4,538 5,684 6,754 6,898 6,608 6,143 6,178 6,512 7,393 8,079 7,776	4,150 4,442 4,401 4,173 4,649 5,800 6,611 6,895 6,846 6,255 6,271 6,632 7,436 7,830 7,610	4,218 4,442 4,416 4,701 5,913 6,602 6,791 6,380 6,341 6,342 7,550 7,754					



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ALPHABETICAL INDEX—SERIES FINDING GUIDE

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		Charts	Tables	(issue date)	(issue date)	Germa UUIII		Charts	Tables	(issue dete)	(issue
Accession rate, defense products industries	654	8	21	10/77	4/73	Hours, defense products industries	673	10	23	10/77	4.
Manufacturers' new orders from U.S. Government	650	See New				Comments and Comment					
Manufacturers' shipments to U.S. Government Manufacturers' unfilled orders from U.S. Government	689 664	See Ship	ments. Iled orders			Inventories, manufacturers' Defense products	659	9	22	2/77	2
Manufacturers britined druers from 0.5. Government	009	366 11111	1			Detense products industries	658	9		1/72	2
						Ratio to shipments, defense products	693	12	26	2/77	2
afance of payments (defense-related)						Retio to shipments, defense products industries	892	12	***	11/72	2
Cash receipts associated with military sales contracts	696	13	27	10/77	10/73						
Direct defense expenditures	547	13	27	10/77	10/73	Layoff rate, defense products industries	655	8	21	10/77	4
Transfers under military agency sales contracts	546 683	San Cust	27	10/77	10/73		1				
idget outlays for national defense function	003	See Outl	ays.			Military personnel, Defense Department	677	10	24	9/76	. 1
ash receipts associated with military sales contracts	696	See Rala	nce of pay	ments							
vilian personnel, Defense Department	678	10	24	9/76	8/68						
ompensation						New orders, manufacturers'		7	20	2/77	
Payrolls, aggregate weekly, defense products	675	10	23	10/77	4/73	Defense products	648	7 7	20	2/77	
Personnel compensation, Defense Department	685	11	25	7/76	8/68	From Government, serospace industries	650	8	20	10/77	
ontract awards, military prime											
Aircraft	626		16		8/68	Obligations incomed areas					
Civilian Health and Medical Program	638 631	***	19		8/68	Obligations incurred, gross Defense Department, operations	619		15	11/77	
Combat vehicles Construction	634	***	18		8/68	Defense Department, procurement	621	6	15	11/77	
Construction	636		19	10/76	8/68	Defense Department, total	617	6	1.5	11/77	
Educational and nonprofit institutions	637	***	19		8/68	Outside Government for national defense	623	6	16	11/77	1
Electronic and communications equipment	630 627	***	17		8/68		644		20	6/76	
Missile and space systems	632	***	18		8/68	Defense Department, procurement	645		20	6/76	
Services	635		18		8/68	Defense Department, total	643	7	20	6/76	
Services	628		1.7	10/76	8/68	Operations, Defense Department			1	1	1
Soft goods	633 625	***	18		8/68	Net outlays	681	See Out	lays. igations in	nurrod	
Total	629		16		8/68	Unpaid obligations outstanding	644		igations or		
Weapons and ammunition Work outside the United States	640		19	10/76	8/68	Orders-See New orders and Unfilled orders.	1		1	1	1
			1			Outlays Budget outlays for national defense function	683	11	25	11/77	1
			1	1	1	Defense Department, operations	681		24	7/76	
lafense and space equipment, output	657	See Out	put of def	ense and spa	ce equipment.	Defense Department, procurement	682	11	25	7/76	
Gross obligations incurred—See Obligations incurred.		1				Defense Department, total Output of defense and space equipment	680 657	11 9	24 22	7/76	1
Gross unpaid obligations outstanding—See				1		Overtime hours, defense products industries	653	8	21	10/77	1
Obligations outstanding. Military prime contract awards—See Contract awards.		1									
Net outlays—See Outlays.	1			1			075				
Personnel compensation	685	See Cor	npensation	1.		Payrolls, aggregate weekly, defense products industries	675 685	See Cor	mpensation	1.	1
Personnel—See Civilian personnel and Military			1	1	1	Personnel See Civilian personnel and Military personnel.	000	1	1	1	T
personnel. Progress payments outstanding	666	See Pro	gress paym	units.	1	Procurement, Defense Department			1	1	1
Direct defense expenditures	547		ance of pa			Net outlays	682 621	See Ou	tlays. ligations in	nurrad	
			1	1	1	Obligations incurred Unpaid obligations outstanding	645		ligations o		
						Progress payments outstanding, Defense Department	666	9	22	10/77	1
mplayment Accession rate, defense products industries	DEA	Sec. 5	1	1	1	Purchases of goods and services for national defense	264	See Gro	oss nationa	I product.	
Employment, production workers, defense products	654	266 VC	ession rate	1	T.						
industries	671	10				Shipments, manufacturers'	1			1	
Employment, total, defense products industries	670	10		10/77	4/73		688	12	26		
Hours, defense products industries Layoff rate, defense products industries	673 655	See Ho	off rate.			Defense products industries Ratio, inventories to shipments, defense products	687	12	1 ***	1 21/12	1.
Overtime hours, defense products industries	653		ertime hou	rs.		Ratio, inventories to shipments, defense products	003	See Inv	entories.		
Personnel-See Civilian personnel and Military			1	1	1	industries	692	Į.			
personnel.						Ratio, unfilled orders to shipments, defense products	691	1	filled -		
xpenditures-See Outlays.	1	1				Ratio, unfilled orders to shipments, defense products industries	690	See Un	filled orde	1	Î
	1					To Government, aerospace industries		12	26	10/77	
ederal purchases of goods and services for national	264			1							
defense		See Gri	oss nations	I product.		Transfers under military agency sales contracts	546	See Ba	lance of pa	yments.	
Gross national product						Unfilled orders, manufacturers'		1	1	1	1
Federal purchases of goods and services for national						Defense products	661	9			
defense	264	1					660	9	22	7/71	
Gross national product National defense purchases as percent of GNP	200 613		1 1			From Government, aerospace industries	. 664	12			
Gross obligations incurred—See Obligations incurred.	613		1	10//	10//	Retio to shipments, defense products	690	12			
Gross unpaid obligations outstanding—See Obligations						Unpaid obligations outstanding—See Obligations	000				
outstanding.	1				1	outstanding.		1			1

